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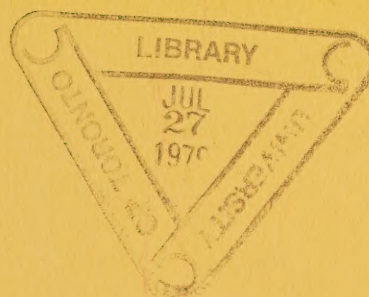
Northwestern Ontario

Manpower Adjustment Study

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Component Study Number 3

**Projections of Enrolment and Graduations
from Secondary and Post-Secondary
Institutions in Northwestern Ontario, to 1981**
by Saeed Quazi, Aribert Kleist
and John Holland



Ontario Ministry of Labour

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TABLE OF CONTENTS

| | |
|--|-----|
| LIST OF TABLES | ii |
| LIST OF DIAGRAMS AND FIGURES | vi |
| PREFACE | vii |
| CHAPTER I: INTRODUCTION | 1 |
| 1. Objectives | 1 |
| 2. Limitations of the data | 1 |
| CHAPTER II: PROJECTIONS OF SECONDARY SCHOOL ENROLMENT, GRADUATES, AND LEAVERS | 4 |
| 1. Methodology | 4 |
| 2. Results | 7 |
| CHAPTER III: PROJECTIONS OF COLLEGE ENROLMENT, GRADUATES, AND LEAVERS | 12 |
| 1. Methodology | 12 |
| 2. Results | 17 |
| 3. Geographical origins of new students | 17 |
| 4. Educational backgrounds of new entrants | 51 |
| CHAPTER IV: PROJECTIONS OF UNIVERSITY ENROLMENT, GRADUATES, AND LEAVERS | 56 |
| 1. Methodology | 56 |
| 2. Results | 73 |
| 3. Geographical origins of first-year students at Lakehead University | 82 |
| CHAPTER V: CONCLUSIONS | 91 |
| APPENDIX A: A NOTE ON DATA SOURCES | 94 |
| APPENDIX B: LAKEHEAD UNIVERSITY: FACULTIES, PROGRAMMES, DURATION OF PROGRAMMES, AND ADMISSION REQUIREMENTS, 1976-77 | 95 |
| APPENDIX C: THE POPULATION OF NORTHWESTERN ONTARIO BY SELECTED AGE GROUPS, 1971-81 | 98 |

LIST OF TABLES

| | | |
|-----------|--|----|
| Table 1. | Actual and Projected Grade 9 Enrolment for Northwestern Ontario | 5 |
| Table 2. | Actual and Projected Secondary School Enrolment in Northwestern Ontario | 6 |
| Table 3. | Actual and Projected Secondary School Leavers for Northwestern Ontario | 8 |
| Table 4. | Actual and Projected Grade 12 and Grade 13 Graduates and Dropouts and Repeaters for Northwestern Ontario | 10 |
| Table 5. | Confederation College of Applied Arts and Technology: Actual and Projected Total Enrolment by Year of Study and Sex | 14 |
| Table 6. | Confederation College of Applied Arts and Technology: Actual and Projected Total Enrolment by Year of Study and Sex | 15 |
| Table 7. | Confederation College of Applied Arts and Technology: Actual and Projected First-Year Enrolment by Programme and Sex | 18 |
| Table 8. | Confederation College of Applied Arts and Technology: Actual and Projected Enrolment by Programme, Year of Study, and Sex | 19 |
| Table 9. | Confederation College of Applied Arts and Technology: First Year of One-Year Programme by Division and Sex | 20 |
| Table 10. | Confederation College of Applied Arts and Technology: First Year of Two-Year Programme by Division and Sex | 21 |
| Table 11. | Confederation College of Applied Arts and Technology: First Year of Three-Year Programme by Division and Sex | 22 |
| Table 12. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences: Actual and Projected Enrolment by Division, Year of Study, and Sex | 25 |
| Table 13. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, One-Year Programmes | 26 |
| Table 14. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, Two-Year Programme | 27 |
| Table 15. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, Two-Year Programmes | 28 |
| Table 16. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, Two-Year Programmes | 29 |
| Table 17. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, Two-Year Programmes | 30 |

| | | |
|-----------|--|----|
| Table 18. | Confederation College of Applied Arts and Technology: Applied Arts and Health Sciences, Two-Year Programmes | 31 |
| Table 19. | Confederation College of Applied Arts and Technology: Business: Actual and Projected Enrolment by Division, Year of Study, and Sex | 32 |
| Table 20. | Confederation College of Applied Arts and Technology: Business, One-Year Programme | 33 |
| Table 21. | Confederation College of Applied Arts and Technology: Business, One-Year Programmes | 34 |
| Table 22. | Confederation College of Applied Arts and Technology: Business, Two-Year Programme | 35 |
| Table 23. | Confederation College of Applied Arts and Technology: Business, Two-Year Programmes | 36 |
| Table 24. | Confederation College of Applied Arts and Technology: Business, Two-Year Programmes | 37 |
| Table 25. | Confederation College of Applied Arts and Technology: Business, Two-Year Programme | 38 |
| Table 26. | Confederation College of Applied Arts and Technology: Business, Three-Year Programme | 39 |
| Table 27. | Confederation College of Applied Arts and Technology: Business, Three-Year Programmes | 40 |
| Table 28. | Confederation College of Applied Arts and Technology: Technology: Actual and Projected Enrolment by Division, Year of Study, and Sex . . | 41 |
| Table 29. | Confederation College of Applied Arts and Technology: Technology, One-Year Programme | 42 |
| Table 30. | Confederation College of Applied Arts and Technology: Technology, Two-Year Programme | 43 |
| Table 31. | Confederation College of Applied Arts and Technology: Technology, Two-Year Programmes | 44 |
| Table 32. | Confederation College of Applied Arts and Technology: Technology, Two-Year Programmes | 45 |
| Table 33. | Confederation College of Applied Arts and Technology: Technology, Two-Year Programmes | 46 |
| Table 34. | Confederation College of Applied Arts and Technology: Technology, Three-Year Programmes | 47 |
| Table 35. | Actual and Projected Geographical Background of Male New Entrants at Confederation College | 48 |
| Table 36. | Actual and Projected Geographical Background of Female New Entrants at Confederation College | 49 |
| Table 37. | Actual and Projected Geographical Background of All New Entrants at Confederation College | 50 |

| | | |
|-----------|---|----|
| Table 38. | Actual and Projected Educational Level of Male New Students at Confederation College | 52 |
| Table 39. | Actual and Projected Educational Level of Female New Students at Confederation College | 53 |
| Table 40. | Actual and Projected Educational Level of All New Entrants at Confederation College | 54 |
| Table 41. | Lakehead University: Actual and Projected Enrolment of Full-Time First-Year Undergraduates | 57 |
| Table 42. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Bachelor of Education | 58 |
| Table 43. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment | 59 |
| Table 44. | Lakehead University: Projected Full-Time Undergraduate Enrolment . . . | 60 |
| Table 45. | Lakehead University: Distribution of First-Year Students by Programme, Degree, and Sex | 61 |
| Table 46. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Bachelor of Arts and Honours Bachelor of Arts | 62 |
| Table 47. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Bachelor of Science and Honours Bachelor of Science | 63 |
| Table 48. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Honours Bachelor of Science in Forestry | 64 |
| Table 49. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Bachelor of Engineering (Post-Diploma) and Bachelor of Applied Science | 65 |
| Table 50. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Basic Degree Programme, Bachelor of Science in Nursing . . . | 66 |
| Table 51. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Post-Diploma Degree Programme in Nursing | 67 |
| Table 52. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Honours Bachelor of Physical and Health Education and Bachelor of Physical Education in Outdoor Recreation | 68 |
| Table 53. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Honours Bachelor of Commerce and Bachelor of Administration . . . | 69 |
| Table 54. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Honours Bachelor of Social Work | 70 |
| Table 55. | Lakehead University: Actual and Projected Full-Time Undergraduate Enrolment, Four-Year Degree Programmes for Elementary-School Teachers and Secondary-School Teachers | 71 |
| Table 56. | Lakehead University: Actual and Projected Full-Time Enrolment in the Non-University Diploma Programme | 72 |

| | | |
|-----------|--|----|
| Table 57. | Lakehead University: Actual and Projected Total Graduate Enrolment . . | 74 |
| Table 58. | Lakehead University: Actual and Projected Full-Time Graduate Enrolment, Faculty of Arts - M.A. | 75 |
| Table 59. | Lakehead University: Actual and Projected Full-Time Graduate Enrolment, Faculty of Science - M.Sc. | 76 |
| Table 60. | Lakehead University: Actual and Projected Full-Time Graduate Enrolment, Master of Education | 77 |
| Table 61. | Lakehead University: Actual and Projected Full-Time Graduate Enrolment, Diplomas and Certificates | 78 |
| Table 62. | Lakehead University: Actual and Projected Graduate Enrolment | 79 |
| Table 63. | Lakehead University: Total Full-Time Graduate, Undergraduate, and Diploma Enrolment | 81 |
| Table 64. | Destinations of Grade 13 Students in Northwestern Ontario | 83 |
| Table 65. | Lakehead University: Educational Backgrounds of First-Year Undergraduates | 84 |
| Table 66. | Lakehead University: Geographical Backgrounds of Full-Time First-Year Students | 85 |
| Table 67. | Lakehead University: Geographical Backgrounds of Graduate Students . . | 86 |
| Table 68. | Lakehead University: The Enrolment of Foreign Students in Relation to Total Full-Time and Part-Time Enrolment | 88 |
| Table 69. | Lakehead University: Full-Time Undergraduate and Graduate Enrolment from Outside Canada, 1976-77 Academic Year | 89 |
| Table 70. | Lakehead University: Foreign Students by Geographical Origin, 1975 and 1976 | 90 |

LIST OF DIAGRAMS AND FIGURES

| | | |
|------------|--|----|
| Diagram 1. | Flow of Students Through Ontario Educational System | 3 |
| Diagram 2. | Schematic Diagram of the Projections of Enrolment at the Confederation College of Applied Arts and Technology | 13 |
| Figure 1. | Confederation College: Actual and Projected Total Male Enrolment . . . | 23 |
| Figure 2. | Confederation College: Actual and Projected Total Female Enrolment . . | 24 |
| Figure 3. | Lakehead University: Actual and Projected Total Students | 80 |

PREFACE

The Northwestern Ontario Manpower Adjustment Study was undertaken by the Research Branch of the Ontario Ministry of Labour as one of the projects for the Canada/Ontario Interim Northlands Subsidiary Agreement under the General Development Agreement. The funds for this project were provided by Employment and Immigration Canada and by the Ontario Regional Priority Budget.

The objective of the Study is to provide information required for the development of policies and programmes designed to relieve structural imbalances in the labour market in Northwestern Ontario. The Study comprises ten component projects dealing with labour supply, labour demand, turnover and absenteeism, migration, and the labour market intentions of graduating students. A complete list of these projects appears inside the back cover.

The present report, "Projections of Enrolment and Graduations from Secondary and Post-Secondary Institutions in Northwestern Ontario, to 1981," provides detailed forecasts of the numbers of enrolments, graduates, and dropouts at Lakehead University and the Confederation College of Applied Arts and Technology. The opinions expressed in this report are those of the authors only, and do not reflect the official views of the Ontario Ministry of Labour, Employment and Immigration Canada, the Ontario Ministry of Treasury, Economics and Intergovernmental Affairs, or the Department of Regional Economic Expansion.

We would like to take this opportunity to thank the many individuals and organisations that helped us to complete this Study. Thanks are due to Employment and Immigration Canada and to the Ontario Regional Priority Budget, whose financial support made the Study possible. We also thank Dr. L. O. Stone, Professor Noah M. Meltz, and Professor C. A. Jecchinis; the members of the Committee On Getting and Holding Manpower in Northwestern Ontario; and Mr. Cliff McIntosh and Mr. Bob Michels of the Quetico Centre, all of whom helped during the planning stages of the Study. For supplying data indispensable to our research we thank the staff at Lakehead University and Confederation College; the Boards of Education in the Districts of Thunder Bay, Rainy River, and Kenora; and the employers and other persons too numerous to name whose contributions assisted us immeasurably. For cooperation and perseverance which facilitated our work we are indebted to many officials in both the Federal and Provincial Governments, and especially to the members of the Federal-Provincial Management Committee for the Interim Northlands Subsidiary Agreement. We are indebted as well to Mr. Michael Ryval and Mr. Charles Bogue, who edited the drafts of these reports for publication, and to the many persons on the clerical and secretarial staff of the Ontario Ministry of Labour whose assistance made it possible to complete these reports. For their encouragement and support we thank Mr. John Kinley and Mr. M. Skolnik, who were the Directors of the Research Branch at the Ontario Ministry of Labour while this Study was in progress, and Mr. G. S. Swartz, the current Director of the Branch. Finally, special thanks go to the authors of the present report, Saeed Quazi, Aribert Kleist, and John Holland, for their work on this project.

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CHAPTER I

INTRODUCTION

1. Objectives

Northwestern Ontario¹ has twenty public secondary schools, one college, and one university.² The following project was undertaken in order to forecast the numbers of enrolments, dropouts, and graduates that may be expected at these institutions until the year 1981, and their distributions by programme of study, educational level, and sex. The data obtained from this project were needed to forecast the future labour supply in the Region, and were incorporated in a comprehensive study of that subject in another report in this series.³

The methodology and the sources of the data used to obtain these projections, as well as the projections themselves, are described in Chapters II to IV of this report. Some concluding remarks appear in Chapter V.

2. Limitations of the data

Two limitations on the projections found in this report should be noted at the outset. First, the data on which these projections are based are not uniformly reliable. Enrolment statistics for public elementary and secondary schools are easily obtained and frequently updated; in stable communities, furthermore, these statistics can be forecast easily from the number of actual or projected births for the years up to the sixth year before the year for which a forecast is desired. Unfortunately, enrolment statistics for colleges and universities are more difficult to get and are less amenable to forecasting, since there is no easily identifiable demographic statistic, such as births at a given time, on which projections of future enrolments may be based.

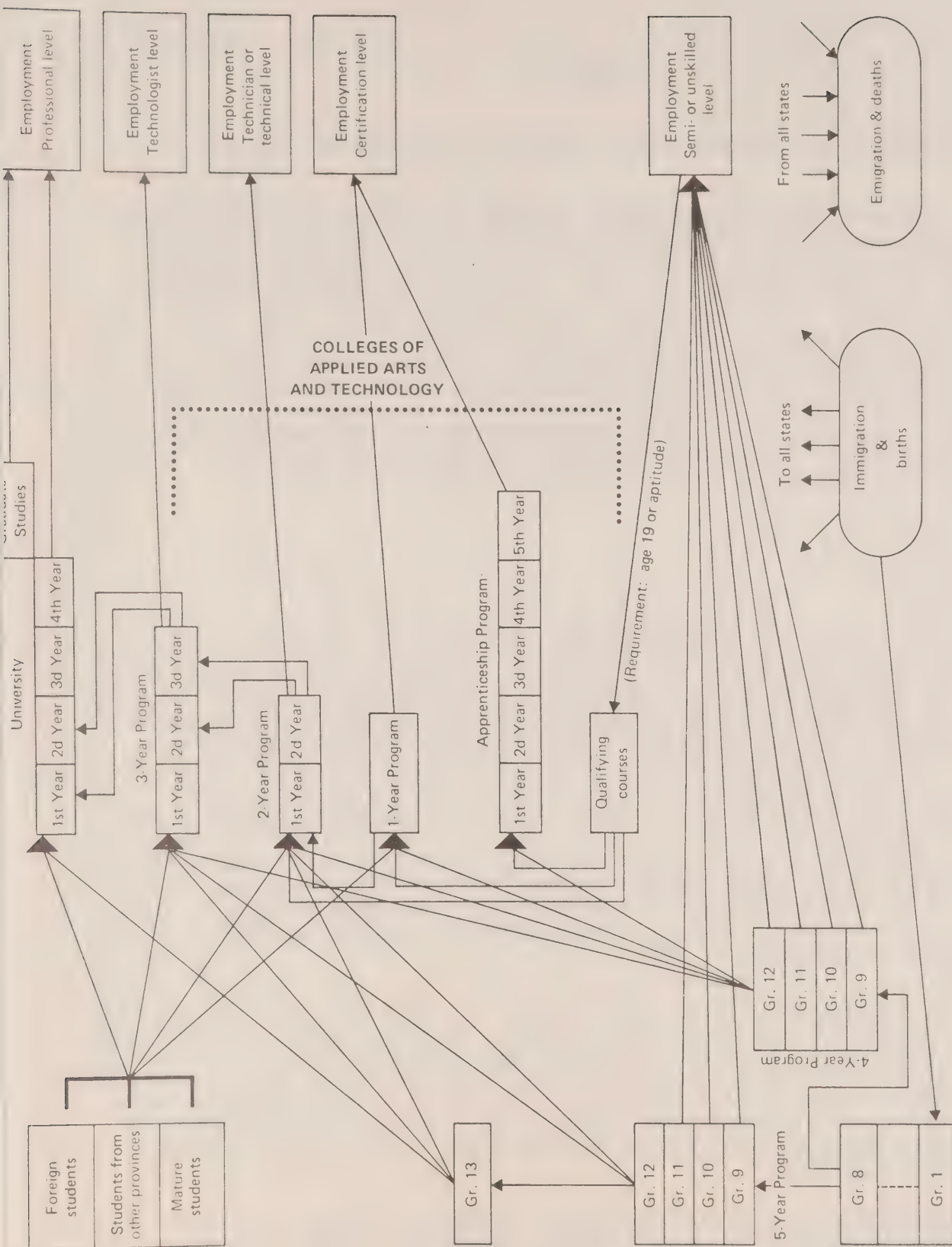
Second, the process of forecasting is complicated by the fact that the educational system in Northwestern Ontario is not well integrated. For this reason it cannot be assumed that a single transition rate to college or to university is applicable to graduates from all high schools, nor can it be assumed that the transition rate will remain stable from year to year. In addition, the numbers of those who have gone from some high schools to college or to university have in the past been

¹"Northwestern Ontario" refers to the Northwestern Ontario Economic Region, defined by P. Camu, E. P. Weeks, and Z. W. Sametz in Economic Geography of Canada (Toronto: Macmillan, 1964), and recognised by the Ontario Ministry of Treasury, Economics, and Intergovernmental Affairs as one of its five Planning Regions for the Province of Ontario. Unless otherwise specified, the term "Region" as used in this report is synonymous with this geographical designation.

²Confederation College of Applied Arts and Technology and Lakehead University. Both are located in the city of Thunder Bay.

³See Frank A. Edwards, Projections of Labour Supply by Occupation in Northwestern Ontario, to 1981, Northwestern Ontario Manpower Adjustment Study, no. 2 (1978).

so small that observed patterns cannot be interpreted as established trends. In order to project the first-year enrolments at Confederation College, coefficients of transition were derived from the observed ratios of students graduating from grade twelve in the Region to first-year enrolments in the College. First-year enrolments in the diploma programme at the University were projected in a like manner. First-year enrolments in the degree programme were projected by applying a coefficient of transition--selected after examining the pattern of the ratio of enrolments to graduations in recent years--to grade 13 graduations in the previous spring.



Flow diagram / Flow of students through Ontario educational system.

Source: Cicely Watson, Saeed Quazi, and Farid Siddiqui, Enrollment in Ontario Colleges of Applied Arts and Technology: Projections to 1981/82, Enrollment Projections Series/Number 7 (Toronto: The Ontario Institute for Studies in Education, 1972).

CHAPTER II

PROJECTIONS OF SECONDARY SCHOOL ENROLMENT, GRADUATES, AND LEAVERS

Northwestern Ontario is no exception to the very general pattern of population development in Ontario. The most dramatic feature of this pattern is the diminishing numbers of people born after 1960. In most parts of the Province the rapid decline of the birth rates after 1960 results in a recognisable peak in secondary school enrolment in or about 1977. In the typical Ontario municipality, enrolments in the early years of secondary school are markedly lower than they were a few years ago, and total enrolments are expected to diminish very rapidly as the relatively large cohorts now in the higher grades move through the system. Enrolments in Northwestern Ontario are also affected by the changing fertility rates of the 1960s, but, for a variety of reasons, the patterns of actual and projected secondary school enrolment there do not demonstrate the pronounced peak reached about 1977 that is so characteristic of the Province as a whole.

1. Methodology

1. A. Enrolment

The projections are based largely on the information contained in Table 1 (page 5). In column 4 are the actual total public and separate school eighth grade enrolments for the years 1966 to 1977 and the projected enrolments for 1977 to 1981. Column 6 contains the ninth grade enrolments in all the secondary schools in the Region, and column 5 the coefficient that represents ninth grade enrolments as a proportion of eighth grade enrolments. This coefficient has been above 100 percent since 1970. It indicates that the ninth grade is a holding pool for secondary school students just before the age at which dropping out of school becomes a legitimate option. Quite a few youths are "held back" in the ninth grade. For our purposes this simply means they do not have the credits necessary to be classified as grade 10 students on the school records. It may be noted that the increase to over 100 percent of the coefficient representing transition from grade 8 to grade 9 corresponds to a significant decrease in the percentage of students "surviving" from grade 9 to grade 10 (see Table 2, page 6).

Grade 9 enrolments, actual and projected, are the basic stock data on which projections of enrolments in higher grades depend. The projections of future grade 9 enrolments are made by applying the expected grade coefficient of survival to the 1976 actual grade 8 enrolments to get the projected 1977 enrolment, and to projected grade 8 enrolments to get grade 9 enrolments for 1978, 1979, 1980, and 1981. On the assumption that a sizeable minority of students will continue to fail in grade 9, 110 percent has been selected as the coefficient to apply to grade 8 enrolments to estimate grade 9 enrolments.

The projected grade 8 enrolments for 1977 and beyond were not done for this study; they have been taken from OISE Secondary School Projections. Column 7 of Table 1 shows the actual percentage of males in grade 8 between 1967 and 1976. The projected secondary school enrolments by sex, shown in Table 2, are based on the assumption that males will comprise 51.0 percent of the total enrolment in grade 9 between 1977 and 1981.

Table 1

Actual and Projected Grade 9 Enrolment for Northwestern Ontario

| Year | Grade 8 | | Total | Grade 9 | Grade 9 Males as a Percentage of Total Grade 8 Enrolment |
|------|---------|----------|-------|---------|---|
| | Public | Separate | | | |
| 1967 | 3,430 | 1,072 | 4,502 | 4,133 | 49.77 |
| 1968 | 3,490 | 1,099 | 4,589 | 4,378 | 50.57 |
| 1969 | 3,313 | 1,123 | 4,436 | 4,583 | 52.41 |
| 1970 | 3,377 | 1,166 | 4,543 | 5,193 | 53.36 |
| 1971 | 3,461 | 1,223 | 4,684 | 5,156 | 51.75 |
| 1972 | 3,364 | 1,262 | 4,626 | 5,257 | 54.18 |
| 1973 | 3,333 | 1,276 | 4,609 | 5,340 | 51.42 |
| 1974 | 3,204 | 1,384 | 4,588 | 4,976 | 51.29 |
| 1975 | 3,179 | 1,295 | 4,474 | 4,859 | 51.47 |
| 1976 | 3,078 | 1,276 | 4,354 | 4,963 | 50.59 |
| 1977 | | | 4,249 | 4,789 | |
| 1978 | | | 3,985 | 4,674 | |
| 1979 | | | 3,940 | 4,384 | |
| 1980 | | | 3,403 | 4,334 | |
| 1981 | | | | 3,743 | |

Table 2

Actual and Projected Secondary School Enrolment in Northwestern Ontario

| Year | Grade 9 | Grade 10 | Grade 11 | Grade 12 | Grade 13 | Others | Total |
|---------|---------|----------|----------|----------|----------|--------|-------|
| Males | | | | | | | |
| 1967 | 2,057 | 1,848 | 1,532 | 1,350 | 605 | 724 | 8,116 |
| 1968 | 2,214 | 2,012 | 1,644 | 1,442 | 644 | 781 | 8,737 |
| 1969 | 2,402 | 2,110 | 1,806 | 1,508 | 675 | 765 | 9,266 |
| 1970 | 2,771 | 2,539 | 1,947 | 1,684 | 688 | --- | 9,629 |
| 1971 | 2,668 | 2,364 | 2,093 | 1,609 | 763 | --- | 9,497 |
| 1972 | 2,848 | 2,275 | 1,982 | 1,662 | 695 | --- | 9,462 |
| 1973 | 2,746 | 2,376 | 1,986 | 1,486 | 716 | --- | 9,310 |
| 1974 | 2,552 | 2,281 | 2,080 | 1,580 | 706 | --- | 9,199 |
| 1975 | 2,501 | 2,290 | 1,985 | 1,675 | 662 | --- | 9,113 |
| 1976 | 2,511 | 2,234 | 2,069 | 1,646 | 680 | --- | 9,140 |
| 1977 | 2,442 | 2,235 | 2,011 | 1,721 | 667 | --- | 9,076 |
| 1978 | 2,384 | 2,173 | 2,012 | 1,673 | 697 | --- | 8,939 |
| 1979 | 2,236 | 2,122 | 1,956 | 1,674 | 678 | --- | 8,666 |
| 1980 | 2,210 | 1,990 | 1,910 | 1,627 | 678 | --- | 8,415 |
| 1981 | 1,909 | 1,967 | 1,791 | 1,589 | 659 | --- | 7,915 |
| Females | | | | | | | |
| 1967 | 2,076 | 1,821 | 1,527 | 1,250 | 504 | 437 | 7,615 |
| 1968 | 2,164 | 1,925 | 1,622 | 1,318 | 553 | 447 | 8,029 |
| 1969 | 2,181 | 2,052 | 1,707 | 1,452 | 562 | 416 | 8,370 |
| 1970 | 2,422 | 2,203 | 1,865 | 1,518 | 542 | --- | 8,550 |
| 1971 | 2,488 | 2,176 | 1,817 | 1,565 | 622 | --- | 8,668 |
| 1972 | 2,409 | 2,186 | 1,898 | 1,468 | 566 | --- | 8,527 |
| 1973 | 2,594 | 2,118 | 1,917 | 1,470 | 515 | --- | 8,614 |
| 1974 | 2,424 | 2,233 | 1,845 | 1,606 | 505 | --- | 8,613 |
| 1975 | 2,358 | 2,225 | 1,996 | 1,641 | 527 | --- | 8,647 |
| 1976 | 2,452 | 2,250 | 2,075 | 1,593 | 529 | --- | 8,899 |
| 1977 | 2,347 | 2,329 | 2,048 | 1,681 | 542 | --- | 8,947 |
| 1978 | 2,290 | 2,230 | 2,119 | 1,659 | 572 | --- | 8,870 |
| 1979 | 2,148 | 2,176 | 2,029 | 1,716 | 564 | --- | 8,633 |
| 1980 | 2,124 | 2,041 | 1,980 | 1,643 | 583 | --- | 8,371 |
| 1981 | 1,834 | 2,018 | 1,836 | 1,604 | 559 | --- | 7,851 |

Male and female enrolments for grades 9, 10, 11, 12, and 13 have been projected by the grade survival method (see Table 2). Enrolments in 1977 are projected for all grades using actual enrolments for the next lower grade in 1976. Projected enrolment in grade 8 in 1978 was the basis for the grade 9 projection; projected enrolments in grades 8 and 9 are the basis of 1978 projections for grades 9 and 10; projected enrolments for grades 8, 9, and 10 are the basis of 1979 projections for grades 9, 10, and 11; projected enrolments in grades 8, 9, 10, and 11 are the basis of 1980 projections for grades 9, 10, 11, and 12; and projected enrolments in grades 8, 9, 10, 11, and 12 are the basis of projected 1981 enrolments in grades 9, 10, 11, 12, and 13.

The projected retention rates for the years 1977 to 1981 are 89 percent for grades 9 to 10, 90 percent for grades 10 to 11, 83.2 percent for grades 11 to 12, and 40.5 percent for grades 12 to 13. These projected retention rates are "judgments" based on observed trends.

1. B. Leavers

Leavers from grades 9, 10, and 11 are presumed to be dropouts from school (see Table 3, page 8). Leavers from grade 12 are both dropouts and graduates who are not going to grade 13. The numbers of leavers estimated here are the differences between the numbers enrolled in grade 9 (10, 11, or 12) in one year and the numbers enrolled in grade 10 (11, 12, or 13) the following year. It is claimed here that the numbers of non-graduating leavers are nearly equivalent to the numbers of dropouts. This definition of dropouts does not allow for deaths, students going from public to private schools, or the net movement of students from the jurisdiction of the school system in the Region. Another distortion in this approach occurs in grade repetitions, but because repeaters become future leavers, this distortion is not significant when the actual or projected number of leavers covers a period of several years. Projected numbers of leavers are obtained by subtracting the coefficient of survival (to the next higher grade) from one (1.00) and multiplying the remainder by the number of enrolments in a particular grade. For example, male leavers from grade 9 in 1977 are estimated to be 11 percent of 2,442, or 269.

As mentioned above, grade 9 projections assume male enrolment to be 51 percent of the total. Sex-specific projections for other grades for each year until 1981 are the product of applying projected sex-specific survival rates to actual or projected rates of enrolment in the previous year. Graduates, however, are projected by using coefficients that correspond to the ratio of actual graduates to grade 12 enrolments as observed for the years 1973 to 1976, and the ratio of actual graduates to grade 13 enrolments for the years 1973 to 1975. Data on graduates are not sex-specific. The projected sex distributions of grade 12 and grade 13 graduates are the result of applying the sex ratios derived from an examination of the school records of graduates for a sample of students (about 10 percent of the graduating population in Northwestern Ontario between the years 1973 and 1975).

2. Results

Table 2 shows that male secondary school enrolment in the Region peaked in 1970.¹ It was 9,629 in 1970 and 9,113 in 1975. It was marginally higher in 1976, but an annual net erosion is projected through the year 1981, when enrolment is estimated to be 7,915.

Female enrolment is projected to reach 8,947 in 1977. The projections show

¹In all tables enrolment figures apply to the beginning of the academic year unless otherwise noted, and a designation of a single year applies to the academic year beginning then; e.g., 1976 applies to the academic year 1976-77.

Table 3

Actual and Projected Secondary School Leavers* for Northwestern Ontario

| Year | Grade 9-Grade 10 | Grade 10-Grade 11 | Grade 11-Grade 12 | Grade 12-Grade 13 | Total |
|---------|------------------|-------------------|-------------------|-------------------|-------|
| Males | | | | | |
| 1967-68 | 45 | 204 | 90 | 706 | 1,045 |
| 1968-69 | 104 | 206 | 136 | 767 | 1,213 |
| 1969-70 | --- | 163 | 122 | 820 | 1,105 |
| 1970-71 | 407 | 446 | 338 | 921 | 2,112 |
| 1971-72 | 393 | 382 | 431 | 914 | 2,120 |
| 1972-73 | 472 | 289 | 496 | 946 | 2,203 |
| 1973-74 | 465 | 296 | 406 | 780 | 1,947 |
| 1974-75 | 262 | 296 | 405 | 918 | 1,881 |
| 1975-76 | 267 | 221 | 339 | 995 | 1,822 |
| 1976-77 | 276 | 223 | 348 | 979 | 1,826 |
| 1977-78 | 269 | 223 | 338 | 1,024 | 1,854 |
| 1978-79 | 262 | 217 | 338 | 995 | 1,812 |
| 1979-80 | 246 | 212 | 329 | 996 | 1,783 |
| 1980-81 | 243 | 199 | 321 | 968 | 1,731 |
| Females | | | | | |
| 1967-68 | 151 | 199 | 209 | 697 | 1,256 |
| 1968-69 | 112 | 218 | 170 | 756 | 1,256 |
| 1969-70 | --- | 187 | 189 | 910 | 1,286 |
| 1970-71 | 246 | 386 | 300 | 896 | 1,828 |
| 1971-72 | 302 | 278 | 349 | 999 | 1,928 |
| 1972-73 | 291 | 269 | 428 | 953 | 1,941 |
| 1973-74 | 361 | 273 | 311 | 965 | 1,910 |
| 1974-75 | 199 | 237 | 304 | 1,079 | 1,819 |
| 1975-76 | 108 | 150 | 403 | 1,012 | 1,673 |
| 1976-77 | 123 | 202 | 394 | 1,051 | 1,770 |
| 1977-78 | 117 | 210 | 389 | 1,109 | 1,825 |
| 1978-79 | 114 | 201 | 403 | 1,095 | 1,813 |
| 1980-81 | 106 | 205 | 376 | 1,084 | 1,771 |

*School leavers are dropouts from Grades 9, 10, 11, and 12, plus those graduates of Grade 12 who do not attend Grade 13.

a decline in female enrolment beginning in 1978. The projected female enrolment for 1981 is 7,851.

Population statistics are presented in Appendix C (page 98). They show the male and female populations 14 to 19 years of age in Northwestern Ontario to be more nearly equal in the 1970s than these secondary enrolment statistics suggest. The different enrolments for males and females are, of course, due to different retention, or survival, rates through secondary school for males and females. Females are becoming more active participants in secondary schools in the Region. A comparison of males and females (Table 2) shows that in the late 1960s females had a modestly but consistently lower grade survival rate than did males. This pattern began to change in the early 1970s, and in recent years females have generally had a higher survival rate than males through grade 12. Total male and female enrolments are projected to be nearly equal in 1981. These projections are made on the assumption that male participation in grade 13 will continue to be higher than female participation. In fact, if not for the difference in grade 13, female enrolment in secondary school would surpass male enrolment before 1981.

In Table 3 the numbers of actual and projected male secondary-school leavers are shown to have been highest in the early 1970s and to have peaked in 1972. Leavers from grades 9 to 10, grades 10 to 11, and grades 11 to 12 may be described as dropouts (as defined above). Grade 12 to 13 leavers, however, include grade 12 graduates who do not go to grade 13 as well as the students who leave without completing grade 12. The totals presented in the final column of Table 3 are the dropouts and graduates from grades 9 to 12. Only the grade 12 graduates going to grade 13 (i.e., the dropouts or graduates from grade 13 in the following year) are not included. Numbers of school-leavers are in large measure determined by cohort size, of course, just as enrolments are. Those numbers have been declining since 1972 and are projected to continue to decline to 1,731 in 1981.

In Table 3 the numbers of actual and projected female secondary-school leavers are also shown to have peaked in 1972. Their numbers have been declining since then, but the decline is not projected to continue. Modestly higher numbers of female leavers are expected during the next few years; the number is projected to be 1,771 in 1981. It is estimated that female and male school-leavers, like enrolments, will be very nearly equal in 1981.

Table 4 (page 10) presents a summary of the products of grades 12 and 13. Non-graduates from grade 12 include both dropouts and repeaters. The portion of repeaters at this grade level is assumed to be small, and at the risk of some double counting "dropouts" and "repeaters" are treated here simply as dropouts. The final two columns present the products of grade 13, graduates and non-completers. Since numbers of grade 12 graduates include both grade 13 graduates and non-completers the following year, the best approximation of the total product of the secondary schools is the sum of the dropouts from grade 9 to 10, grade 10 to 11, grade 11 to 12, grade 12 graduates and grade 12 dropouts and repeaters. That number was 2,502 males in 1975. However, the total number of male school-leavers for 1975 plus enrolment in grade 13 in 1976 is also 2,502. For a summary of the estimated product of the secondary schools over a period of years, then, it is only necessary to add the total of leavers for grades 9 to 12 in a given year to the number enrolled in grade 13 the following year. That number may be described as the number of potential members of the labour force coming from the secondary schools. Some of these potential members of the labour force will spend the next few years in college or university, and some will never become members of the labour force.

The number of new labour force potentials coming from the secondary schools has declined slightly for both sexes since 1973. The number of male potentials will continue to decline gradually from 2,502 in 1975 to 2,442 in 1980. The number of female potentials will increase very modestly for a few years; it was 2,200 in 1975,

Table 4

Actual and Projected Grade 12 and Grade 13 Graduates and Dropouts and Repeaters
for Northwestern Ontario

| Year | Grade 12 | | Grade 13 | |
|---------|-----------|------------------------|-----------|-------------------------|
| | Graduates | Dropouts and Repeaters | Graduates | Dropouts and Repeaters* |
| Males | | | | |
| 1973-74 | 1,239 | 247 | 444 | 272 |
| 1974-75 | 1,214 | 366 | 398 | 308 |
| 1975-76 | 1,244 | 431 | 421 | 241 |
| 1976-77 | 1,260 | 386 | 432 | 248 |
| 1977-78 | 1,323 | 398 | 432 | 235 |
| 1978-79 | 1,296 | 377 | 454 | 243 |
| 1979-80 | 1,318 | 356 | 444 | 234 |
| 1980-81 | 1,272 | 355 | 451 | 227 |
| 1981-82 | 1,241 | 348 | 436 | 223 |
| Females | | | | |
| 1973-74 | 1,342 | 128 | 364 | 151 |
| 1974-75 | 1,315 | 291 | 325 | 180 |
| 1975-76 | 1,348 | 193 | 344 | 183 |
| 1976-77 | 1,364 | 229 | 354 | 175 |
| 1977-78 | 1,433 | 248 | 354 | 188 |
| 1978-79 | 1,403 | 256 | 371 | 201 |
| 1979-80 | 1,428 | 288 | 363 | 201 |
| 1980-81 | 1,377 | 266 | 369 | 214 |
| 1981-82 | 1,345 | 259 | 356 | 203 |

*Dropouts from Grade 13 include Grade 12 graduates who go to Colleges of Applied Arts and Technology and to Diploma courses at Lakehead University without obtaining a Grade 13 diploma.

and is expected to be 2,381 in 1980.

Column 2 of Table 4 shows that the number of female graduates from grade 12 will be about 100 (or 8 percent) more than the number of male graduates through 1981. The larger number of female grade 12 graduates plus the higher propensity for male graduates to attend grade 13 suggests that females will be over-represented in the College of Applied Arts and Technology.

Column 6 in Table 2 and Column 4 in Table 4 indicate that grade 13 enrolments are somewhat irregular, and grade 13 graduations even more so. The number of grade 13 graduates appears to vary more as the result of change in the dropout rates than as a result of variations in enrolment. The number of graduates is expected to be only a few more than in 1976 for the next few years and very nearly the same in 1981 as in 1976. The number of male graduates will continue to exceed the females by about 80 (or 18 percent).

CHAPTER III

PROJECTIONS OF COLLEGE ENROLMENT, GRADUATES, AND LEAVERS

There is one college in Northwestern Ontario, Confederation College of Applied Arts and Technology in Thunder Bay. This college is an important source of trained personnel and manpower with post-secondary education in the Region, though it is naturally of greater service to people in Thunder Bay than to those in other parts of the Region. At the same time, some of the students at Confederation College come from outside Northwestern Ontario. Many graduates of the College leave the Region, while many people trained elsewhere go there to work. No effort is made here to estimate the effects of graduates from the College on the supply of qualified labour in Northwestern Ontario. Projections will cover only the numbers of graduates and non-graduates who will come from the College until 1981.

The methodology used to obtain these projections is described below. It is appropriate to say here, however, that first-year enrolments have been projected by applying a coefficient of transition (representing the transition from secondary school to college) to the actual and projected numbers of grade 12 graduates in the Region. Second- and third-year enrolments have been projected by applying a coefficient of survival (comparable to grade-survival coefficients in the secondary school projections) to actual and projected first-year enrolments. First-year enrolments are the basic stock of data on which these projections of the flow of students through the college are based.

Diagram 2 (page 13) outlines the structure of the projections. First-year enrolments (then second- and third-year enrolments) are disaggregated first to the three divisions of the College: Applied Arts and Health Sciences, Business, and Technology. The enrolments in each division are disaggregated into sets of one-year, two-year, and three-year programmes. These sets are then disaggregated to the individual programmes.

1. Methodology

As was mentioned above, the College-wide enrolments (shown in Tables 5 and 6, pages 14 and 15, respectively) are derived from projections of first-year enrolments based on the observed relationship between grade 12 graduates and first-year enrolments in recent years. In Table 6 it is shown that the actual coefficient representing the ratio of male first-year enrolments to grade 12 graduates the previous spring was .266 (26.6 percent) in 1974, .306 in 1975, and .273 in 1976. The actual coefficient representing the ratio of female first-year enrolments to grade 12 graduates the previous spring was .327 (32.7 percent) in 1974, .338 in 1975, and .318 in 1976. The coefficient chosen to represent the ratio of first-year enrolments to projected graduates between 1977 and 1981 is .270 for males and .320 for females.

Coefficients somewhat higher than these would have been chosen had the choices been based solely on observation of the actual coefficients in recent years. However, the coefficients used in these projections of first-year enrolments were chosen after examining the congruity of two supporting projections not presented here. The method used in the supporting projections is the "component method." In the first of these projections the components are the geographical sources of students; in the second the components are their educational backgrounds.

Diagram 2

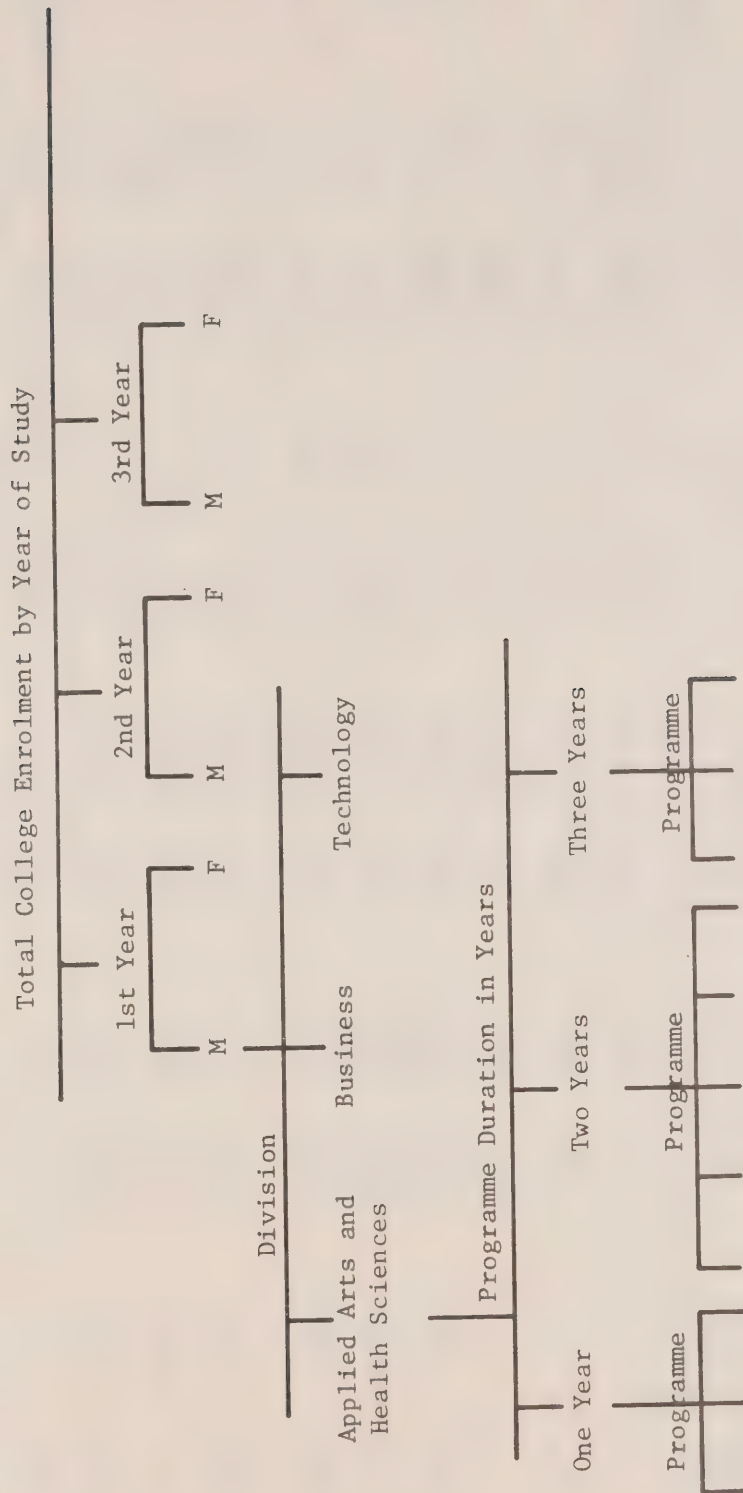


Table 5

Confederation College of Applied Arts and Technology:
Actual and Projected* Total Enrolment by Year of Study and Sex

| Year | Grade 12 Graduates | | 1st Year | | 2nd Year | | 3rd Year | | Total | | Total (Both Sexes) |
|------|-----------------------|-------|----------|------|----------|-----|----------|----|-------|-----|-----------------------|
| | M | F | M | F | M | F | M | F | M | F | |
| 1971 | | | 378 | 151 | 178 | 170 | 18 | -- | 574 | 321 | 895 |
| 1972 | | | 364 | 309 | 181 | 90 | 17 | -- | 562 | 399 | 961 |
| 1973 | | | 327 | 397 | 240 | 204 | 16 | -- | 583 | 601 | 1,184 |
| 1974 | 1,239 | 1,342 | 329 | 439 | 230 | 203 | 16 | 1 | 575 | 643 | 1,218 |
| | | | 27.0 | 33.4 | | | | | | | |
| 1975 | 1,214 | 1,315 | 371 | 445 | 249 | 236 | 22 | 3 | 642 | 684 | 1,326 |
| | | | 29.8 | 33.0 | | | | | | | |
| 1976 | 1,244 | 1,348 | 340 | 429 | 239 | 237 | 16 | 1 | 595 | 667 | 1,262 |
| 1977 | 1,260 | 1,364 | 347 | 436 | 248 | 221 | 23 | 1 | 618 | 658 | 1,276 |
| 1978 | 1,323 | 1,433 | 357 | 450 | 261 | 230 | 19 | -- | 637 | 680 | 1,317 |
| 1979 | 1,296 | 1,403 | 350 | 449 | 262 | 230 | 19 | 1 | 631 | 679 | 1,310 |
| 1980 | 1,318 | 1,428 | 356 | 450 | 262 | 231 | 19 | -- | 637 | 681 | 1,318 |
| 1981 | 1,272 | 1,377 | 343 | 441 | 253 | 223 | 19 | 1 | 615 | 665 | 1,280 |

*Based on the summary projections for all programmes.

Table 6

Confederation College of Applied Arts and Technology:

Actual and Projected* Total Enrolment by Year of Study and Sex

| Year | Grade 12 Graduates | | 1st Year | | 2nd Year | | 3rd Year | | Total | | Total (Both Sexes) |
|------|-----------------------|-------|----------|------|----------|-----|----------|----|-------|-----|-----------------------|
| | M | F | M | F | M | F | M | F | M | F | |
| 1971 | | | 378 | 151 | 178 | 170 | 18 | -- | 574 | 321 | 895 |
| 1972 | | | 364 | 309 | 181 | 90 | 17 | -- | 562 | 399 | 961 |
| 1973 | | | 327 | 397 | 240 | 204 | 16 | -- | 583 | 601 | 1,184 |
| 1974 | 1,239 | 1,342 | 329 | 439 | 230 | 203 | 16 | 1 | 575 | 643 | 1,218 |
| | | | 26.6 | 32.7 | | | | | | | |
| 1975 | 1,214 | 1,315 | 371 | 445 | 249 | 236 | 22 | 3 | 642 | 684 | 1,326 |
| | | | 30.6 | 33.8 | | | | | | | |
| 1976 | 1,244 | 1,348 | 340 | 429 | 239 | 237 | 16 | 1 | 595 | 667 | 1,262 |
| | | | 27.3 | 31.8 | | | | | | | |
| 1977 | 1,260 | 1,364 | 347 | 436 | 238 | 230 | 17 | 2 | 602 | 668 | 1,270 |
| 1978 | 1,323 | 1,433 | 357 | 450 | 238 | 233 | 17 | 2 | 612 | 685 | 1,297 |
| 1979 | 1,296 | 1,403 | 350 | 449 | 250 | 246 | 17 | 2 | 617 | 697 | 1,314 |
| 1980 | 1,318 | 1,428 | 356 | 450 | 245 | 240 | 18 | 2 | 619 | 692 | 1,311 |
| 1981 | 1,272 | 1,377 | 343 | 441 | 249 | 244 | 17 | 2 | 609 | 687 | 1,296 |

*Based on the summary projections for all programmes.

In the projections based on geographical sources new entrants were disaggregated into seven geographical categories. In the order of their numerical importance those sources were

1. District of Thunder Bay
2. Ontario excluding Northwestern Ontario and Metro Toronto
3. District of Kenora
4. District of Rainy River
5. Other provinces
6. Other countries
7. Metropolitan Toronto

A coefficient representing the ratio of enrolments from Thunder Bay to total enrolments was determined on the basis of actual statistics for the years up to 1976. Another coefficient was developed to represent the ratio of grade 12 graduates from Thunder Bay to new entrants from Thunder Bay. New entrants from Thunder Bay were projected by using this second coefficient and projections of grade 12 graduates. Projections for all other sources were made on the basis of these projections and the coefficients representing relationships between each of the several sources and total new entrants. The sums of these projections were the total of expected new entrants to the College. The projections of new entrants were raised by a constant value (18 for males, 32 for females) estimated to correspond to the differences between new entrants and first-year enrolments in the past (the number of first-year enrolments is usually higher than the number of new entrants, presumably because some students repeat the first year).

In the projections based on educational background, first-year enrolments were disaggregated into five educational backgrounds and another category, "Retraining--non post-secondary," was added. In the order of their numerical importance these sources are

1. Grade 12 graduates
2. Grade 13 graduates
3. Grade 12 graduates with partial grade 13
4. University graduates (by university attended)
5. Other post-secondary
6. Retraining--non post-secondary

Actual statistics through 1976 were used to estimate coefficients representing the ratio of each source to total new entrants. Another coefficient was developed that represented the ratio of grade 12 graduates to enrolments from this source alone through 1976. New entrants from this source were projected on the basis of the latter coefficient and projected grade 12 graduates. New entrants from all sources were projected on the basis of these projections and the coefficients pertaining to the ratio of the several sources to the total. The total of these was the projected total of new entrants. These projections of new entrants, like the geographical-source projections, were raised by a constant value to approximate first-year enrolments.

After the projections based on these geographical sources and educational background were observed, some judgmental compromises and adjustments were made to select the "most credible" coefficients to be used to produce the first-year projections in Tables 5 and 6.

The concept behind projecting total college enrolments from first-year enrolments is that of a flow model using stock data. The basic methodology is to apply an overall year-to-year survival coefficient to first-year enrolments (Table 6). Enrolments by division, duration of programme, and programme are projected by applying survival coefficients to first-year enrolments at those levels. In cases where the

numbers are very small one must resort to intuition and experience and then make a guess.

2. Results

Tables 5 to 11 (pages 14-15 and pages 18-22, respectively) show actual enrolment statistics and projections for the College as a whole. Table 5 is a summary of projections for all programmes (i.e., summary of programmes, sets of programmes by duration, and divisions). Table 6 gives projections for the College as a whole, and is probably a better statement of future enrolments. The projections depict near-static enrolment at the College until 1981, the enrolments varying in the intervening years but not exceeding the 1975 enrolment (1,326) or falling below the 1976 enrolment (1,262). Female enrolments have been higher than male enrolments at the College since 1973, and are expected to remain higher until 1981. These projections are shown graphically in Figures 1 and 2 (pages 23 and 24, respectively).

Tables 12 to 18 (pages 25 to 31) show the actual enrolment statistics up to 1976 and projections until 1981 for the Applied Arts and Health Sciences division. This is the largest division in the College and, because of the stable enrolments in the recent past, it will probably remain so. Table 13 shows projected enrolments, graduations, and dropouts in the one-year programmes in this division. Tables 14 to 18 show the projected first- and second-year enrolments, dropouts in the first year and in the second year, and graduates in the two-year programmes in this division.

Tables 19 to 27 (pages 32 to 40) give the actual statistics up to 1976 and the projections until 1981 for the Business division. Tables 20 and 21 present projected enrolments, graduations, and dropouts in the one-year programmes in this division. Tables 22 to 25 give projections of enrolments, graduations, and dropouts in the first and second years of the two-year programmes in this division. Tables 26 and 27 present similar information on the three-year programmes.

Tables 28 to 34 (pages 41 to 47) show the statistics up to 1976 and projections until 1981 for the Technology division. Table 29 gives projected enrolments in the one-year programme in this division. This programme is the prerequisite for several others, but no one graduates from it and for this reason it is not feasible to estimate dropouts. Tables 30 to 33 give projections of enrolments, graduates, and dropouts in the first and second years of the two-year programme in this division. Table 34 presents the projections of the enrolments, graduates, and dropouts in the first, second, and third years of the three-year programmes in this division.

3. Geographical origins of new students

Tables 35 to 37 (pages 48 to 50) show projections of new entrants from the several geographical sources. The data are based on the assumption that the ratio of each of these sources to the total is constant. Total new entrants for the years 1977 to 1981 differ from the first-year enrolments in Tables 5 and 6 only by the assumed constant difference (18 for males, 32 for females) between new entrants and first-year enrolments.

Several comments are suggested by the information in Tables 35 to 37. The Thunder Bay District, with 64.5 percent of the population in Northwestern Ontario, has contributed between 65 and 73 percent of the new enrolments at Confederation College since 1971. The female enrolment from Thunder Bay, which was never less than 69 percent of total female enrolment, reached 74.6 percent in 1976. In these projections it is assumed to be 73.5 percent until 1981.

The Kenora District, with 24.8 percent of the population in Northwestern

Table 7

Confederation College of Applied Arts and Technology:

Actual and Projected First-Year Enrolment by Programme and Sex

| Year | Programme | | | | | | | |
|------|-----------|-----|----------|-----|------------|----|-------|-----|
| | One-Year | | Two-Year | | Three-Year | | Total | |
| | M | F | M | F | M | F | M | F |
| 1970 | 122 | 76 | 248 | 107 | 1 | -- | 371 | 183 |
| 1971 | 123 | 7 | 255 | 144 | -- | -- | 378 | 151 |
| 1972 | 143 | 137 | 221 | 172 | -- | -- | 364 | 309 |
| 1973 | 111 | 155 | 216 | 242 | -- | -- | 327 | 397 |
| 1974 | 98 | 151 | 227 | 288 | 4 | -- | 329 | 439 |
| 1975 | 90 | 135 | 267 | 309 | 14 | 1 | 371 | 445 |
| 1976 | 78 | 164 | 252 | 264 | 10 | 1 | 340 | 429 |
| 1977 | 78 | 154 | 258 | 281 | 11 | 1 | 347 | 436 |
| 1978 | 73 | 151 | 273 | 298 | 11 | 1 | 357 | 450 |
| 1979 | 71 | 153 | 268 | 295 | 11 | 1 | 350 | 449 |
| 1980 | 67 | 148 | 278 | 301 | 11 | 1 | 356 | 450 |
| 1981 | 64 | 144 | 268 | 296 | 11 | 1 | 343 | 441 |

Confederation College of Applied Arts and Technology:

Actual and Projected Enrolment by Programme, Year of Study, and Sex

[illegible]

Table 9

Confederation College of Applied Arts and Technology:

First Year of One-Year Programme by Division and Sex

| Year | Total One-Year Course | | | Applied Arts and Health Sciences | | | Business | | | Technology | | |
|------|-----------------------|-----|-------|----------------------------------|----|-------|----------|-----|-------|------------|----|-------|
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| 1970 | 49 | 72 | 121 | -- | -- | -- | 49 | 72 | 121 | -- | -- | -- |
| 1971 | 65 | 100 | 165 | -- | -- | -- | 37 | 100 | 137 | 28 | -- | 28 |
| 1972 | 90 | 137 | 227 | 18 | 32 | 50 | 41 | 105 | 146 | 31 | -- | 31 |
| 1973 | 73 | 126 | 199 | 16 | 27 | 43 | 36 | 99 | 135 | 21 | -- | 21 |
| 1974 | 78 | 151 | 229 | 15 | 33 | 48 | 28 | 116 | 144 | 35 | 2 | 37 |
| 1975 | 90 | 135 | 225 | 11 | 33 | 44 | 44 | 99 | 143 | 35 | 3 | 38 |
| 1976 | 78 | 164 | 242 | 16 | 35 | 51 | 35 | 118 | 153 | 27 | 11 | 38 |
| 1977 | 78 | 163 | 241 | 16 | 32 | 48 | 35 | 119 | 154 | 27 | 12 | 39 |
| 1978 | 73 | 160 | 233 | 15 | 32 | 47 | 32 | 116 | 148 | 26 | 12 | 38 |
| 1979 | 71 | 162 | 233 | 14 | 33 | 47 | 32 | 117 | 149 | 25 | 12 | 37 |
| 1980 | 67 | 158 | 225 | 14 | 32 | 46 | 30 | 114 | 144 | 23 | 12 | 35 |
| 1981 | 64 | 153 | 232 | 13 | 31 | 44 | 29 | 110 | 154 | 22 | 12 | 34 |

Table 10

Confederation College of Applied Arts and Technology:

First Year of Two-Year Programme by Division and Sex

| Year | Total | | | Applied Arts and Health Sciences | | | Business | | | Technology | | |
|------|-------|-----|-------|-------------------------------------|-----|-------|----------|----|-------|------------|----|-------|
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| | | | | | | | | | | | | |
| 1970 | 225 | 93 | 318 | 96 | 78 | 174 | 37 | 15 | 52 | 92 | -- | 92 |
| 1971 | 240 | 128 | 368 | 59 | 87 | 146 | 51 | 41 | 92 | 130 | -- | 130 |
| 1972 | 242 | 166 | 408 | 84 | 116 | 200 | 41 | 50 | 91 | 117 | -- | 117 |
| 1973 | 285 | 253 | 538 | 74 | 193 | 267 | 71 | 59 | 130 | 140 | 1 | 141 |
| 1974 | 247 | 288 | 535 | 65 | 241 | 306 | 65 | 47 | 112 | 117 | -- | 117 |
| 1975 | 267 | 309 | 576 | 66 | 248 | 314 | 68 | 58 | 126 | 133 | 3 | 136 |
| 1976 | 252 | 264 | 516 | 66 | 200 | 266 | 54 | 62 | 116 | 132 | 2 | 134 |
| 1977 | 278 | 278 | 551 | 66 | 214 | 280 | 60 | 65 | 125 | 132 | 2 | 134 |
| 1978 | 275 | 273 | 548 | 71 | 225 | 296 | 60 | 68 | 128 | 142 | 5 | 147 |
| 1979 | 280 | 278 | 558 | 70 | 220 | 290 | 61 | 70 | 131 | 137 | 5 | 142 |
| 1980 | 269 | 278 | 547 | 72 | 224 | 296 | 59 | 71 | 130 | 147 | 6 | 153 |
| 1981 | 264 | 263 | 527 | 68 | 219 | 287 | 55 | 72 | 127 | 145 | 5 | 150 |

Table 11

Confederation College of Applied Arts and Technology:

First Year of Three-Year Programme by Division and Sex

| Year | Total | | | Applied Arts and Health Sciences | | | Business | | | Technology | | |
|------|-------|----|-------|-------------------------------------|----|-------|----------|----|-------|------------|----|-------|
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| | | | | | | | | | | | | |
| 1970 | 1 | -- | 1 | -- | -- | -- | -- | -- | -- | 1 | -- | 1 |
| 1971 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1972 | 4 | -- | 4 | -- | -- | -- | 4 | -- | 4 | -- | -- | -- |
| 1973 | 19 | 1 | 20 | -- | -- | -- | 4 | 1 | 5 | 15 | -- | 15 |
| 1974 | 4 | -- | 4 | -- | -- | -- | -- | -- | -- | 4 | -- | 4 |
| 1975 | 14 | 1 | 15 | -- | -- | -- | -- | -- | -- | 14 | 1 | 15 |
| 1976 | 10 | 1 | 11 | -- | -- | -- | 1 | -- | 1 | 9 | 1 | 10 |
| 1977 | 11 | 1 | 12 | -- | -- | -- | -- | -- | -- | 11 | 1 | 12 |
| 1978 | 11 | 1 | 12 | -- | -- | -- | -- | -- | -- | 11 | 1 | 12 |
| 1979 | 11 | 1 | 12 | -- | -- | -- | -- | -- | -- | 11 | 1 | 12 |
| 1980 | 11 | 1 | 12 | -- | -- | -- | -- | -- | -- | 11 | 1 | 12 |
| 1981 | 11 | 1 | 12 | -- | -- | -- | -- | -- | -- | 11 | 1 | 12 |

Figure 1

Confederation College: Actual and Projected Total Male Enrolment

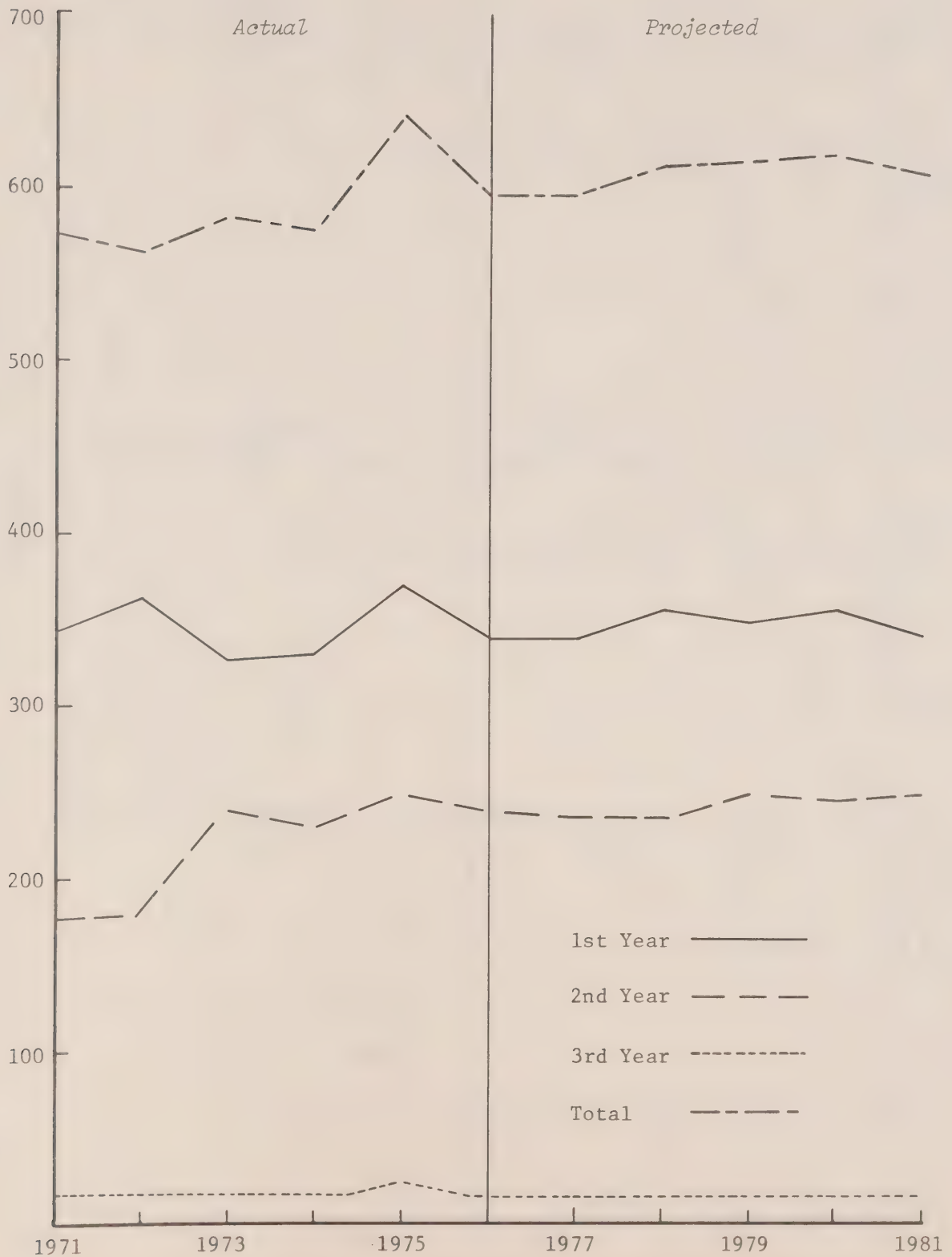


Figure 2

Confederation College: Actual and Projected Total Female Enrolment

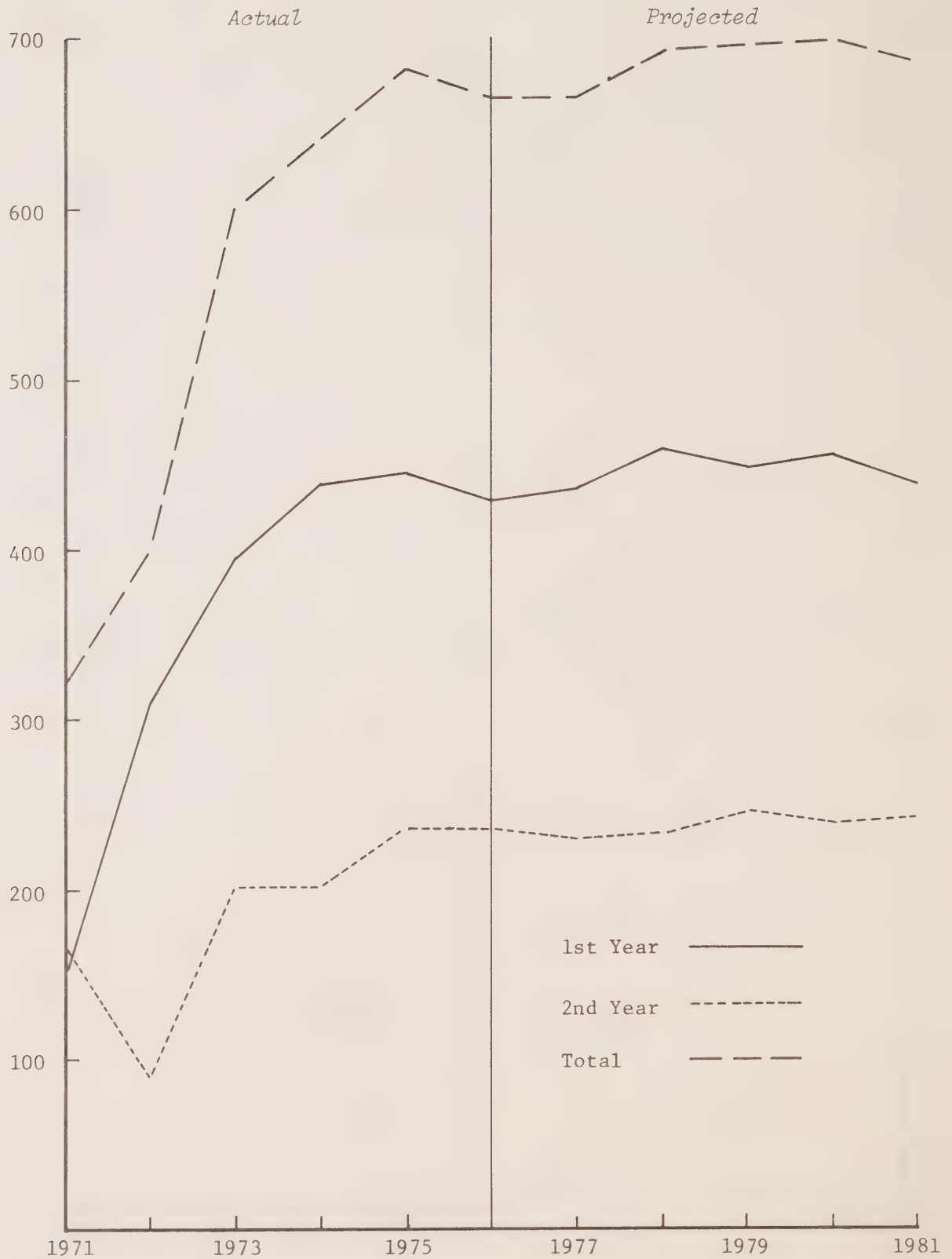


Table 12

Confederation College of Applied Arts and Technology:

Applied Arts and Health Sciences

Actual and Projected Enrolment by Division, Year of Study, and Sex

| Year | Males | | | Females | | | Total | | |
|------|-------|-----|-----|---------|-----|-----|-------|-----|-----|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| 1970 | 96 | 32 | -- | 78 | 43 | -- | 174 | 75 | -- |
| 1971 | 59 | 26 | -- | 87 | 42 | -- | 146 | 68 | -- |
| 1972 | 102 | 31 | -- | 148 | 61 | -- | 250 | 92 | -- |
| 1973 | 90 | 46 | -- | 220 | 182 | -- | 310 | 228 | -- |
| 1974 | 80 | 54 | -- | 274 | 159 | -- | 354 | 213 | -- |
| 1975 | 77 | 58 | -- | 281 | 196 | -- | 358 | 254 | -- |
| 1976 | 82 | 54 | -- | 235 | 175 | -- | 317 | 229 | -- |
| 1977 | 82 | 61 | -- | 246 | 160 | -- | 328 | 221 | -- |
| 1978 | 86 | 62 | -- | 257 | 168 | -- | 343 | 230 | -- |
| 1979 | 84 | 63 | -- | 253 | 165 | -- | 337 | 228 | -- |
| 1980 | 86 | 62 | -- | 256 | 167 | -- | 342 | 229 | -- |
| 1981 | 81 | 59 | -- | 250 | 163 | -- | 331 | 222 | -- |

Table 13

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, One-Year Programmes

| | Total | | | Law and Security | | | Dental Assistant | | |
|---------|----------|-----------|----------|------------------|-----------|----------|------------------|-----------|----------|
| | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts |
| Males | | | | | | | | | |
| 1972 | 18 | -- | -- | 18 | -- | -- | -- | -- | -- |
| 1973 | 16 | -- | -- | 16 | -- | -- | -- | -- | -- |
| 1974 | 15 | -- | -- | 15 | -- | -- | -- | -- | -- |
| 1975 | 11 | -- | -- | 11 | -- | -- | -- | -- | -- |
| 1976 | 16 | -- | -- | 16 | -- | -- | -- | -- | -- |
| 1977 | 16 | 11 | 5 | 16 | 11 | 5 | -- | -- | -- |
| 1978 | 15 | 11 | 5 | 15 | 11 | 5 | -- | -- | -- |
| 1979 | 14 | 11 | 5 | 14 | 11 | 5 | -- | -- | -- |
| 1980 | 14 | 10 | 4 | 14 | 10 | 4 | -- | -- | -- |
| 1981 | 13 | 10 | 4 | 13 | 10 | 4 | -- | -- | -- |
| Females | | | | | | | | | |
| 1972 | 32 | -- | -- | 6 | -- | -- | 26 | -- | -- |
| 1973 | 27 | -- | -- | 4 | -- | -- | 23 | -- | -- |
| 1974 | 33 | -- | -- | 9 | -- | -- | 24 | -- | -- |
| 1975 | 33 | -- | -- | 10 | -- | -- | 23 | -- | -- |
| 1976 | 35 | -- | -- | 12 | -- | -- | 23 | -- | -- |
| 1977 | 32 | 25 | 7 | 11 | 8 | 4 | 21 | 20 | 3 |
| 1978 | 32 | 23 | 6 | 11 | 8 | 3 | 21 | 18 | 3 |
| 1979 | 33 | 22 | 6 | 11 | 8 | 3 | 22 | 18 | 3 |
| 1980 | 32 | 23 | 6 | 11 | 8 | 3 | 21 | 19 | 3 |
| 1981 | 31 | 22 | 6 | 10 | 8 | 3 | 21 | 18 | 3 |

Table 14

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, Two-Year Programme

| | Males | | | Females | | | Total | | |
|------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|
| | 1st Year | 2nd Year | Graduates | 1st Year | 2nd Year | Graduates | 1st Year | 2nd Year | Graduates |
| 1967 | 1 | -- | -- | 14 | -- | -- | 15 | -- | -- |
| 1968 | 25 | 6 | -- | 48 | 16 | -- | 73 | 22 | -- |
| 1969 | 47 | 24 | -- | 64 | 34 | -- | 111 | 58 | 19 |
| 1970 | 96 | 32 | -- | 78 | 43 | -- | 174 | 75 | 53 |
| 1971 | 59 | 26 | -- | 87 | 42 | -- | 146 | 68 | 68 |
| 1972 | 84 | 31 | -- | 116 | 61 | -- | 200 | 92 | 61 |
| 1973 | 74 | 46 | -- | 193 | 182 | -- | 267 | 228 | 73 |
| 1974 | 65 | 54 | -- | 241 | 159 | -- | 306 | 213 | 113 |
| 1975 | 66 | 58 | -- | 248 | 196 | -- | 314 | 254 | 184 |
| 1976 | 66 | 54 | -- | 200 | 175 | -- | 266 | 229 | 215 |
| 1977 | 66 | 61 | 49 | 214 | 160 | 173 | 280 | 221 | 222 |
| 1978 | 71 | 62 | 49 | 225 | 168 | 145 | 296 | 230 | 194 |
| 1979 | 70 | 63 | 52 | 220 | 165 | 152 | 290 | 228 | 204 |
| 1980 | 72 | 62 | 53 | 224 | 167 | 149 | 296 | 229 | 202 |
| 1981 | 68 | 59 | 49 | 219 | 163 | 151 | 287 | 222 | 203 |

Table 15

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, Two-Year Programmes

| Year | Early Childhood Education | | | | Film Production | | | | General Arts and Science | | | |
|---------|---------------------------|----------|-----------|-----------------|-----------------|----------|----------|-----------|--------------------------|-----------------|----------|----------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year |
| Males | | | | | | | | | | | | |
| 1967 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1968 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4 | -- |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 | 9 |
| 1970 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 | 8 |
| 1971 | -- | -- | -- | -- | -- | 13 | 4 | -- | -- | -- | 2 | 2 |
| 1972 | -- | -- | -- | -- | -- | 16 | 4 | -- | -- | -- | 9 | 3 |
| 1973 | -- | -- | -- | -- | -- | 8 | 5 | -- | -- | -- | 2 | -- |
| 1974 | 1 | -- | -- | -- | -- | 10 | 7 | -- | -- | -- | 6 | -- |
| 1975 | -- | -- | -- | -- | -- | 10 | 5 | -- | -- | -- | 5 | 2 |
| 1976 | -- | -- | -- | -- | -- | 10 | 6 | -- | -- | -- | 8 | -- |
| 1977 | -- | -- | -- | -- | -- | 10 | 6 | 4 | 4 | 2 | 6 | 6 |
| 1978 | -- | -- | -- | -- | -- | 10 | 6 | 4 | 4 | 2 | 7 | 5 |
| 1979 | -- | -- | -- | -- | -- | 10 | 6 | 4 | 4 | 2 | 7 | 5 |
| 1980 | -- | -- | -- | -- | -- | 10 | 6 | 4 | 4 | 2 | 7 | 5 |
| 1981 | -- | -- | -- | -- | -- | 10 | 6 | 4 | 4 | 2 | 6 | 4 |
| Females | | | | | | | | | | | | |
| 1967 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1968 | 19 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | -- |
| 1969 | 21 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | 13 | 6 |
| 1970 | 21 | 19 | -- | -- | -- | -- | -- | -- | -- | -- | 14 | 7 |
| 1971 | 29 | 18 | -- | -- | -- | 5 | -- | -- | -- | -- | 3 | -- |
| 1972 | 30 | 22 | -- | -- | -- | 3 | 1 | -- | -- | -- | 5 | -- |
| 1973 | 31 | 24 | -- | -- | -- | 4 | 1 | -- | -- | -- | 3 | 3 |
| 1974 | 33 | 26 | -- | -- | -- | -- | 2 | -- | -- | -- | 9 | 1 |
| 1975 | 31 | 22 | -- | -- | -- | 1 | -- | -- | -- | -- | 11 | 2 |
| 1976 | 22 | 22 | -- | -- | -- | 2 | -- | -- | -- | -- | 8 | 4 |
| 1977 | 23 | 17 | 22 | 5 | -- | 2 | -- | -- | -- | -- | 10 | 3 |
| 1978 | 25 | 17 | 17 | 6 | -- | 2 | -- | -- | -- | -- | 11 | 4 |
| 1979 | 22 | 16 | 17 | 9 | -- | 2 | -- | -- | -- | -- | 11 | 4 |
| 1980 | 24 | 17 | 16 | 5 | -- | 2 | -- | -- | -- | -- | 11 | 4 |
| 1981 | 26 | 16 | 17 | 8 | -- | 2 | -- | -- | -- | -- | 11 | 4 |

Table 16

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, Two-Year Programmes

| Year | General Arts and Science - Theatre | | | | Interior Design | | | | Law and Security - Advanced | | | |
|---------|------------------------------------|----------|-----------|-----------------|-----------------|----------|----------|-----------|-----------------------------|-----------------|----------|----------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year |
| Males | | | | | | | | | | | | |
| 1970 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21 | -- |
| 1971 | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21 | 5 |
| 1972 | 8 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| 1973 | 8 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8 |
| 1974 | 2 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| 1975 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 |
| 1976 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9 |
| 1977 | -- | -- | -- | -- | -- | -- | 2 | 2 | -- | -- | -- | 10 |
| 1978 | -- | -- | -- | -- | -- | -- | 2 | 2 | -- | -- | -- | 10 |
| 1979 | -- | -- | -- | -- | -- | -- | 2 | 2 | -- | -- | -- | 10 |
| 1980 | -- | -- | -- | -- | -- | -- | 2 | 2 | -- | -- | -- | 10 |
| 1981 | -- | -- | -- | -- | -- | -- | 2 | 2 | -- | -- | -- | 10 |
| Females | | | | | | | | | | | | |
| 1970 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- |
| 1971 | 6 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 4 | -- |
| 1972 | 7 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1973 | 7 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 | 1 |
| 1974 | 1 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| 1975 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| 1976 | -- | -- | -- | -- | -- | -- | 19 | -- | -- | -- | -- | 5 |
| 1977 | -- | -- | -- | -- | -- | -- | 20 | 15 | -- | -- | -- | 5 |
| 1978 | -- | -- | -- | -- | -- | -- | 20 | 16 | 4 | -- | -- | 5 |
| 1979 | -- | -- | -- | -- | -- | -- | 20 | 16 | 4 | -- | -- | 5 |
| 1980 | -- | -- | -- | -- | -- | -- | 20 | 16 | 4 | -- | -- | 5 |
| 1981 | -- | -- | -- | -- | -- | -- | 20 | 16 | 4 | -- | -- | 5 |

Table 17

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, Two-Year Programmes

| | Mental Retardation Counsellor | | | | Radio and TV Arts | | | | Radiological Technician | | | | | | |
|---------|-------------------------------|----------|-----------|-----------------|-------------------|----------|----------|-----------|-------------------------|-----------------|----------|----------|-----------|-----------------|-----------------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 |
| Males | | | | | | | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | 22 | 12 | -- | -- | -- | 1 | -- | -- | -- | -- |
| 1971 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- |
| 1972 | 3 | -- | -- | -- | -- | 22 | 7 | -- | -- | -- | 1 | -- | -- | -- | -- |
| 1973 | 4 | 5 | -- | -- | -- | 22 | 12 | -- | -- | -- | 2 | 1 | -- | -- | -- |
| 1974 | 5 | 5 | -- | -- | -- | 17 | 7 | -- | -- | -- | -- | 1 | -- | -- | -- |
| 1975 | 9 | 3 | -- | -- | -- | 17 | 12 | -- | -- | -- | 2 | -- | -- | -- | -- |
| 1976 | 3 | 3 | -- | -- | -- | 21 | 9 | -- | -- | -- | 2 | 2 | -- | -- | -- |
| 1977 | 4 | 3 | 3 | -- | -- | 20 | 13 | 6 | 8 | 3 | 2 | 2 | 2 | 1 | -- |
| 1978 | 5 | 3 | 3 | 1 | -- | 21 | 13 | 9 | 7 | 4 | 2 | 1 | 2 | -- | -- |
| 1979 | 4 | 3 | 3 | 2 | -- | 20 | 13 | 9 | 8 | 4 | 2 | 2 | 1 | 1 | -- |
| 1980 | 5 | 3 | 3 | 1 | -- | 22 | 13 | 9 | 7 | 4 | 2 | 1 | 2 | -- | -- |
| 1981 | 5 | 3 | 3 | 2 | -- | 20 | 12 | 9 | 10 | 4 | 2 | 2 | 1 | -- | -- |
| Females | | | | | | | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9 | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | 3 | 3 | -- | -- | -- | 12 | -- | -- | -- | -- |
| 1971 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 | 8 | -- | -- | -- |
| 1972 | 29 | -- | -- | -- | -- | -- | 4 | -- | -- | -- | 9 | 10 | -- | -- | -- |
| 1973 | 25 | 20 | -- | -- | -- | 6 | -- | -- | -- | -- | 7 | 9 | -- | -- | -- |
| 1974 | 28 | 20 | -- | -- | -- | 5 | 5 | -- | -- | -- | 10 | 6 | -- | -- | -- |
| 1975 | 32 | 22 | -- | -- | -- | 18 | 5 | -- | -- | -- | 9 | 9 | -- | -- | -- |
| 1976 | 30 | 15 | -- | -- | -- | 6 | 12 | -- | -- | -- | 9 | 9 | -- | -- | -- |
| 1977 | 30 | 22 | 15 | 8 | -- | 8 | 5 | 9 | 1 | 3 | 9 | 9 | 9 | -- | -- |
| 1978 | 32 | 22 | 21 | 8 | 1 | 9 | 5 | 4 | 3 | 1 | 9 | 9 | 9 | -- | -- |
| 1979 | 32 | 22 | 21 | 10 | 1 | 9 | 5 | 4 | 4 | 1 | 9 | 9 | 9 | -- | -- |
| 1980 | 33 | 22 | 21 | 10 | 1 | 10 | 5 | 4 | 4 | 1 | 9 | 9 | 9 | -- | -- |
| 1981 | 30 | 22 | 21 | 11 | 1 | 8 | 5 | 4 | 5 | 1 | 9 | 9 | 9 | -- | -- |

Table 18

Confederation College of Applied Arts and Technology:
Applied Arts and Health Sciences, Two-Year Programmes

| Year | Recreational Leader | | | | Social Service Worker | | | | Diploma Nursing | | | |
|---------|---------------------|----------|-----------|-----------------|-----------------------|----------|----------|-----------|-----------------|-----------------|----------|-----------------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | Dropouts Year 2 |
| Males | | | | | | | | | | | | |
| 1968 | 6 | -- | -- | -- | -- | 15 | 6 | -- | -- | -- | -- | -- |
| 1969 | 11 | 5 | -- | -- | -- | 12 | 10 | -- | -- | -- | -- | -- |
| 1970 | 12 | 7 | -- | -- | -- | 10 | 5 | -- | -- | -- | -- | -- |
| 1971 | 11 | 9 | -- | -- | -- | 6 | 5 | -- | -- | -- | -- | -- |
| 1972 | 14 | 4 | -- | -- | -- | 11 | 5 | -- | -- | -- | -- | -- |
| 1973 | 15 | 6 | -- | -- | -- | 10 | 7 | -- | -- | -- | -- | -- |
| 1974 | 13 | 11 | -- | -- | -- | 9 | 9 | -- | -- | -- | -- | -- |
| 1975 | 10 | 13 | -- | -- | -- | 10 | 8 | -- | -- | -- | -- | -- |
| 1976 | 13 | 12 | -- | -- | -- | 6 | 11 | -- | -- | -- | -- | -- |
| 1977 | 12 | 12 | 11 | 1 | 1 | 7 | 5 | 10 | 1 | 1 | 3 | 2 |
| 1978 | 13 | 12 | 11 | 1 | 1 | 9 | 8 | 4 | 1 | 1 | 2 | 2 |
| 1979 | 13 | 12 | 11 | 1 | 1 | 9 | 8 | 7 | 1 | 1 | 3 | 2 |
| 1980 | 13 | 12 | 11 | 1 | 1 | 8 | 8 | 7 | 1 | 1 | 3 | 2 |
| 1981 | 12 | 11 | 11 | 2 | 1 | 8 | 7 | 7 | 1 | 1 | 3 | 2 |
| Females | | | | | | | | | | | | |
| 1968 | 8 | -- | -- | -- | -- | 15 | 6 | -- | -- | -- | -- | -- |
| 1969 | 7 | 8 | -- | -- | -- | 14 | 6 | -- | -- | -- | -- | -- |
| 1970 | 12 | 4 | -- | -- | -- | 13 | 10 | -- | -- | -- | -- | -- |
| 1971 | 12 | 7 | -- | -- | -- | 17 | 8 | -- | -- | -- | -- | -- |
| 1972 | 13 | 5 | -- | -- | -- | 20 | 14 | -- | -- | -- | -- | -- |
| 1973 | 12 | 13 | -- | -- | -- | 17 | 20 | -- | -- | -- | 78 | 88 |
| 1974 | 19 | 10 | -- | -- | -- | 27 | 17 | -- | -- | -- | 109 | 66 |
| 1975 | 16 | 16 | -- | -- | -- | 24 | 29 | -- | -- | -- | 106 | 84 |
| 1976 | 13 | 10 | -- | -- | -- | 18 | 20 | -- | -- | -- | 73 | 78 |
| 1977 | 16 | 10 | 9 | 3 | 1 | 19 | 17 | 18 | 1 | 2 | 77 | 57 |
| 1978 | 17 | 13 | 9 | 6 | 1 | 20 | 18 | 16 | 1 | 1 | 80 | 59 |
| 1979 | 15 | 12 | 12 | 5 | 1 | 20 | 18 | 16 | 1 | 2 | 80 | 58 |
| 1980 | 15 | 12 | 11 | 5 | 1 | 20 | 18 | 16 | 1 | 2 | 80 | 59 |
| 1981 | 13 | 12 | 11 | 5 | 1 | 20 | 18 | 16 | 1 | 2 | 80 | 56 |

Table 19

Confederation College of Applied Arts and Technology:

Business

Actual and Projected Enrolment by Division, Year of Study, and Sex

| Total | Males | | | Females | | | Total | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1st Year | 2nd Year | 3rd Year | 1st Year | 2nd Year | 3rd Year | 1st Year | 2nd Year | 3rd Year |
| 1970 | 86 | 37 | -- | 87 | 11 | -- | 173 | 48 | -- |
| 1971 | 88 | 36 | 5 | 141 | 21 | -- | 229 | 57 | 5 |
| 1972 | 86 | 37 | 7 | 155 | 23 | -- | 241 | 60 | 7 |
| 1973 | 111 | 27 | 3 | 158 | 31 | -- | 269 | 58 | 3 |
| 1974 | 93 | 67 | 3 | 163 | 42 | -- | 256 | 109 | 3 |
| 1975 | 112 | 70 | 10 | 157 | 38 | 1 | 269 | 108 | 10 |
| 1976 | 90 | 60 | 2 | 180 | 60 | 3 | 270 | 120 | 2 |
| 1977 | 95 | 63 | 3 | 175 | 58 | -- | 270 | 121 | 3 |
| 1978 | 92 | 63 | 3 | 175 | 59 | -- | 267 | 122 | 3 |
| 1979 | 93 | 64 | 3 | 178 | 62 | -- | 271 | 126 | 3 |
| 1980 | 89 | 65 | 3 | 175 | 61 | -- | 264 | 126 | 3 |
| 1981 | 84 | 62 | 3 | 173 | 58 | -- | 257 | 120 | 3 |

Table 20

Confederation College of Applied Arts and Technology:

Business, One-Year Programme

| Year | Total: All One-Year Programmes | | | Executive Secretarial | | | General Secretarial | | |
|---------|--------------------------------|-----------|----------|-----------------------|-----------|----------|---------------------|-----------|----------|
| | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts |
| Males | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | 49 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1971 | 37 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1972 | 41 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1973 | 36 | -- | -- | -- | -- | -- | 1 | -- | -- |
| 1974 | 28 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1975 | 44 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1976 | 35 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1977 | 35 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1978 | 32 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1979 | 32 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1980 | 30 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1981 | 29 | -- | -- | -- | -- | -- | -- | -- | -- |
| Females | | | | | | | | | |
| 1969 | 56 | -- | -- | 8 | -- | -- | 33 | -- | -- |
| 1970 | 72 | -- | -- | 12 | -- | -- | 39 | -- | -- |
| 1971 | 100 | -- | -- | 11 | -- | -- | 59 | -- | -- |
| 1972 | 105 | -- | -- | 4 | -- | -- | 63 | -- | -- |
| 1973 | 99 | -- | -- | 6 | -- | -- | 52 | -- | -- |
| 1974 | 116 | -- | -- | 8 | -- | -- | 61 | -- | -- |
| 1975 | 99 | -- | -- | 11 | -- | -- | 33 | -- | -- |
| 1976 | 118 | -- | -- | 4 | -- | -- | 42 | -- | -- |
| 1977 | 110 | 56 | 21 | 7 | 3 | 1 | 44 | 29 | 13 |
| 1978 | 107 | 59 | 21 | 7 | 5 | 2 | 43 | 31 | 13 |
| 1979 | 108 | 58 | 21 | 7 | 5 | 2 | 43 | 30 | 13 |
| 1980 | 104 | 58 | 21 | 7 | 5 | 2 | 42 | 30 | 13 |
| 1981 | 101 | 57 | 21 | 7 | 5 | 2 | 40 | 29 | 13 |

Table 21

Confederation College of Applied Arts and Technology:

Business, One-Year Programmes

| Year | Medical Secretarial | | | Legal Secretarial | | | General Business Common* | | |
|---------|---------------------|-----------|----------|-------------------|-----------|----------|--------------------------|-----------|----------|
| | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts | 1st Year | Graduates | Dropouts |
| Males | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | -- | 49 | -- | -- |
| 1971 | -- | -- | -- | -- | -- | -- | 37 | -- | -- |
| 1972 | -- | -- | -- | -- | -- | -- | 41 | -- | -- |
| 1973 | -- | -- | -- | -- | -- | -- | 35 | -- | -- |
| 1974 | -- | -- | -- | -- | -- | -- | 28 | -- | -- |
| 1975 | -- | -- | -- | -- | -- | -- | 44 | -- | -- |
| 1976 | -- | -- | -- | -- | -- | -- | 35 | -- | -- |
| 1977 | -- | -- | -- | -- | -- | -- | 35 | -- | -- |
| 1978 | -- | -- | -- | -- | -- | -- | 32 | -- | -- |
| 1979 | -- | -- | -- | -- | -- | -- | 32 | -- | -- |
| 1980 | -- | -- | -- | -- | -- | -- | 30 | -- | -- |
| 1981 | -- | -- | -- | -- | -- | -- | 29 | -- | -- |
| Females | | | | | | | | | |
| 1969 | 9 | -- | -- | 6 | -- | -- | -- | -- | -- |
| 1970 | 15 | -- | -- | -- | -- | -- | 6 | -- | -- |
| 1971 | 15 | -- | -- | 8 | -- | -- | 7 | -- | -- |
| 1972 | 17 | -- | -- | 8 | -- | -- | 13 | -- | -- |
| 1973 | 21 | -- | -- | 8 | -- | -- | 12 | -- | -- |
| 1974 | 16 | -- | -- | 13 | -- | -- | 18 | -- | -- |
| 1975 | 13 | -- | -- | 14 | -- | -- | 28 | -- | -- |
| 1976 | 18 | -- | -- | 13 | -- | -- | 41 | -- | -- |
| 1977 | 17 | 14 | 4 | 12 | 10 | 3 | 39 | -- | -- |
| 1978 | 17 | 13 | 4 | 12 | 10 | 2 | 37 | -- | -- |
| 1979 | 17 | 13 | 4 | 12 | 10 | 2 | 38 | -- | -- |
| 1980 | 17 | 13 | 4 | 12 | 10 | 2 | 36 | -- | -- |
| 1981 | 17 | 13 | 4 | 11 | 10 | 2 | 35 | -- | -- |

Confederation College of Applied Arts and Technology:
Business, Two-Year Programmes

| Year | Aviation Management - Common and Private License | | | | | Business Data Processing | | | | | Business General Accounting | | | | |
|---------|--|----------|-----------|-----------------|-----------------|--------------------------|----------|-----------|-----------------|-----------------|-----------------------------|----------|-----------|-----------------|-----------------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 |
| Males | | | | | | | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | 24 | 6 | -- | -- | -- | -- | 10 | -- | -- | -- |
| 1971 | -- | -- | -- | -- | -- | 14 | 13 | -- | -- | -- | -- | 1 | -- | -- | -- |
| 1972 | -- | -- | -- | -- | -- | 13 | 7 | -- | -- | -- | -- | 4 | -- | -- | -- |
| 1973 | 27 | -- | -- | -- | -- | 8 | 3 | -- | -- | -- | -- | 8 | -- | -- | -- |
| 1974 | 28 | 22 | -- | -- | -- | 10 | 7 | -- | -- | -- | -- | 9 | -- | -- | -- |
| 1975 | 36 | 17 | -- | -- | -- | 5 | 7 | -- | -- | -- | -- | 12 | -- | -- | -- |
| 1976 | 29 | 21 | -- | -- | -- | 8 | 2 | -- | -- | -- | -- | 14 | -- | -- | -- |
| 1977 | 30 | 19 | 15 | 10 | 6 | 7 | 4 | 1 | 4 | 1 | -- | 15 | 12 | -- | 2 |
| 1978 | 30 | 20 | 15 | 10 | 4 | 7 | 5 | 2 | 2 | 2 | -- | 15 | 12 | -- | 3 |
| 1979 | 31 | 20 | 16 | 10 | 4 | 7 | 5 | 3 | 2 | 2 | -- | 15 | 12 | -- | 3 |
| 1980 | 30 | 21 | 16 | 10 | 4 | 7 | 5 | 3 | 2 | 2 | -- | 15 | 12 | -- | 3 |
| 1981 | 29 | 20 | 17 | 10 | 4 | 6 | 5 | 3 | 2 | 2 | -- | 14 | 12 | -- | 3 |
| Females | | | | | | | | | | | | | | | |
| 1969 | -- | -- | -- | -- | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | 14 | 5 | -- | -- | -- | -- | 2 | -- | -- | -- |
| 1971 | -- | -- | -- | -- | -- | 11 | 4 | -- | -- | -- | -- | 3 | -- | -- | -- |
| 1972 | -- | -- | -- | -- | -- | 8 | 8 | -- | -- | -- | -- | 4 | -- | -- | -- |
| 1973 | -- | -- | -- | -- | -- | 8 | 2 | -- | -- | -- | -- | 7 | -- | -- | -- |
| 1974 | -- | -- | -- | -- | -- | 8 | 4 | -- | -- | -- | -- | 2 | -- | -- | -- |
| 1975 | 1 | -- | -- | -- | -- | 4 | 2 | -- | -- | -- | -- | 7 | -- | -- | -- |
| 1976 | 5 | -- | -- | -- | -- | 7 | 2 | -- | -- | -- | -- | 14 | -- | -- | -- |
| 1977 | 6 | 3 | -- | 2 | -- | 7 | 3 | 1 | 4 | 1 | -- | 12 | 12 | -- | 2 |
| 1978 | 6 | 3 | 1 | 3 | 2 | 6 | 3 | 2 | 4 | 1 | -- | 12 | 11 | -- | 1 |
| 1979 | 6 | 4 | 1 | 2 | 2 | 7 | 4 | 2 | 2 | 1 | -- | 12 | 11 | -- | 1 |
| 1980 | 6 | 4 | 2 | 2 | 2 | 6 | 3 | 3 | 4 | 1 | -- | 12 | 11 | -- | 1 |
| 1981 | 6 | 4 | 2 | 2 | 2 | 6 | 3 | 2 | 3 | 1 | -- | 11 | 11 | -- | 1 |

Table 24
Confederation College of Applied Arts and Technology:
Business, Two-Year Programmes

| | Business General Marketing | | | | Food and Lodging Administration | | | | Personnel Management | | | |
|---------|----------------------------|----------|-----------|-----------------|---------------------------------|----------|----------|-----------|----------------------|-----------------|----------|----------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year |
| Males | | | | | | | | | | | | |
| 1970 | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | 13 | 8 |
| 1971 | -- | 4 | -- | -- | -- | -- | 10 | -- | -- | -- | 11 | 7 |
| 1972 | -- | 8 | -- | -- | -- | -- | 13 | -- | -- | -- | 6 | 5 |
| 1973 | -- | 1 | -- | -- | -- | -- | 11 | -- | -- | -- | 10 | 4 |
| 1974 | -- | 4 | -- | -- | -- | -- | 13 | -- | -- | -- | 8 | 10 |
| 1975 | -- | 13 | -- | -- | -- | -- | 8 | -- | -- | -- | 11 | 5 |
| 1976 | 1 | 9 | -- | -- | -- | -- | 6 | -- | -- | -- | 5 | 9 |
| 1977 | -- | 9 | 8 | -- | 1 | 14 | 7 | 6 | 4 | -- | 7 | 4 |
| 1978 | -- | 9 | 8 | -- | 1 | 14 | 7 | 6 | 7 | 1 | 7 | 5 |
| 1979 | -- | 9 | 8 | -- | 1 | 14 | 7 | 6 | 7 | 1 | 7 | 6 |
| 1980 | -- | 9 | 8 | -- | 1 | 14 | 7 | 6 | 7 | 1 | 6 | 6 |
| 1981 | -- | 8 | 8 | -- | 1 | 13 | 7 | 6 | 7 | 1 | 5 | 6 |
| Females | | | | | | | | | | | | |
| 1970 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- |
| 1971 | -- | 5 | -- | -- | -- | 2 | 7 | -- | -- | -- | 1 | 2 |
| 1972 | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- | 1 | 1 |
| 1973 | -- | 2 | -- | -- | -- | 8 | -- | -- | -- | -- | 2 | 1 |
| 1974 | -- | -- | -- | -- | -- | 3 | 1 | -- | -- | -- | -- | 2 |
| 1975 | -- | 4 | -- | -- | -- | 12 | 3 | -- | -- | -- | -- | -- |
| 1976 | 1 | 5 | -- | -- | -- | 9 | 5 | -- | -- | -- | -- | 2 |
| 1977 | -- | 5 | 4 | -- | 1 | 9 | 4 | 4 | 5 | 1 | -- | -- |
| 1978 | -- | 5 | 4 | -- | 1 | 10 | 4 | 4 | 5 | -- | -- | -- |
| 1979 | -- | 5 | 4 | -- | 1 | 11 | 5 | 4 | 5 | -- | -- | -- |
| 1980 | -- | 5 | 4 | -- | 1 | 12 | 5 | 5 | 6 | -- | -- | -- |
| 1981 | -- | 4 | 4 | -- | 1 | 12 | 5 | 5 | 7 | -- | -- | -- |

Table 25

Confederation College of Applied Arts and Technology:

Business, Two-Year Programme

| Travel and Tourism Administration | | | | | |
|-----------------------------------|-------------|-------------|-----------|--------------------|--------------------|
| Year | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 |
| Males | | | | | |
| 1971 | 1 | -- | -- | -- | -- |
| 1972 | -- | -- | -- | -- | -- |
| 1973 | 2 | -- | -- | -- | -- |
| 1974 | 5 | 2 | -- | -- | -- |
| 1975 | 2 | 8 | -- | -- | -- |
| 1976 | -- | 2 | -- | -- | -- |
| 1977 | 2 | 2 | 1 | -- | 1 |
| 1978 | 2 | 2 | 1 | -- | 1 |
| 1979 | 2 | 2 | 1 | -- | 1 |
| 1980 | 2 | 2 | 1 | -- | 1 |
| 1981 | 2 | 2 | 1 | -- | 1 |
| Females | | | | | |
| 1971 | 27 | -- | -- | -- | -- |
| 1972 | 29 | 10 | -- | -- | -- |
| 1973 | 41 | 19 | -- | -- | -- |
| 1974 | 36 | 33 | -- | -- | -- |
| 1975 | 41 | 22 | -- | -- | -- |
| 1976 | 40 | 32 | -- | -- | -- |
| 1977 | 42 | 31 | 30 | 9 | 2 |
| 1978 | 44 | 32 | 29 | 9 | 2 |
| 1979 | 44 | 32 | 30 | 9 | 2 |
| 1980 | 44 | 32 | 30 | 9 | 2 |
| 1981 | 46 | 31 | 30 | 10 | 2 |

Table 26
Confederation College of Applied Arts and Technology:
Business, Three-Year Programme

| Year | Males | | | Females | | | Total | | |
|------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-----------|
| | 1st Year | 2nd Year | 3rd Year | Graduates | 1st Year | 2nd Year | 3rd Year | Graduates | Graduates |
| 1969 | 10 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1971 | -- | 1 | 5 | -- | -- | -- | 1 | 5 | -- |
| 1972 | 4 | -- | 7 | -- | -- | -- | -- | 7 | 5 |
| 1973 | 4 | -- | 3 | -- | 1 | -- | -- | 3 | 13 |
| 1974 | -- | -- | 3 | -- | -- | -- | -- | 4 | 7 |
| 1975 | -- | -- | 10 | -- | -- | -- | -- | 13 | 4 |
| 1976 | 1 | -- | 2 | -- | -- | -- | 1 | 2 | 13 |
| 1977 | -- | -- | 3 | 3 | -- | -- | -- | 3 | 3 |
| 1978 | -- | -- | 3 | 3 | -- | -- | -- | 3 | 3 |
| 1979 | -- | -- | 3 | 3 | -- | -- | -- | 3 | 3 |
| 1980 | -- | -- | 3 | 3 | -- | -- | -- | 3 | 3 |
| 1981 | -- | -- | 3 | 3 | -- | -- | -- | 3 | 3 |

Confederation College of Applied Arts and Technology:
Business, Three-Year Programmes

[illegible]

Table 28

Confederation College of Applied Arts and Technology:

Technology

Actual and Projected Enrolment by Division, Year of Study, and Sex

| Year | Males | | | Females | | | Total | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1st Year | 2nd Year | 3rd Year | 1st Year | 2nd Year | 3rd Year | 1st Year | 2nd Year | 3rd Year |
| 1970 | 93 | 41 | 7 | -- | 2 | -- | 93 | 43 | 7 |
| 1971 | 158 | 39 | 13 | -- | -- | -- | 158 | 39 | 13 |
| 1972 | 148 | 71 | 7 | -- | -- | -- | 148 | 71 | 7 |
| 1973 | 175 | 77 | 8 | 1 | -- | -- | 176 | 77 | 8 |
| 1974 | 156 | 93 | 9 | 2 | 2 | -- | 158 | 95 | 9 |
| 1975 | 182 | 121 | 12 | 7 | 2 | -- | 189 | 123 | 12 |
| 1976 | 168 | 121 | 14 | 14 | 2 | 1 | 182 | 122 | 15 |
| 1977 | 170 | 124 | 20 | 15 | 3 | 1 | 185 | 127 | 21 |
| 1978 | 179 | 136 | 16 | 18 | 3 | -- | 197 | 139 | 16 |
| 1979 | 173 | 135 | 16 | 18 | 3 | 1 | 191 | 138 | 17 |
| 1980 | 181 | 135 | 16 | 19 | 3 | -- | 200 | 138 | 16 |
| 1981 | 178 | 132 | 16 | 18 | 2 | 1 | 196 | 134 | 17 |

Table 29

Confederation College of Applied Arts and Technology:
Technology, One-Year Programme

| Year | | | Architecture Common | |
|---------|-------------|-----------|---------------------|-----------|
| | 1st Year | Graduates | 1st Year | Graduates |
| Males | | | | |
| 1970 | -- | -- | 22 | -- |
| 1971 | 28 | -- | 28 | -- |
| 1972 | 31 | -- | 31 | -- |
| 1973 | 21 | -- | 21 | -- |
| 1974 | 35 | -- | 35 | -- |
| 1975 | 35 | -- | 35 | -- |
| 1976 | 27 | -- | 27 | -- |
| 1977 | 27 | -- | 27 | -- |
| 1978 | 26 | -- | 26 | -- |
| 1979 | 25 | -- | 25 | -- |
| 1980 | 23 | -- | 23 | -- |
| 1981 | 22 | -- | 22 | -- |
| Females | | | | |
| 1974 | 2 | -- | 2 | -- |
| 1975 | 3 | -- | 3 | -- |
| 1976 | 11 | -- | 11 | -- |
| 1977 | 12 | -- | 12 | -- |
| 1978 | 12 | -- | 12 | -- |
| 1979 | 12 | -- | 12 | -- |
| 1980 | 12 | -- | 12 | -- |
| 1981 | 12 | -- | 12 | -- |

Table 30

Confederation College of Applied Arts and Technology:

Technology, Two-Year Programme

| Year | Males | | | Females | | | Total | |
|------|-------------|-------------|-----------|-------------|-------------|-----------|-------------|--------------------------|
| | 1st Year | 2nd Year | Graduates | 1st Year | 2nd Year | Graduates | 1st Year | 2nd Year Graduates |
| 1967 | 39 | -- | -- | -- | -- | -- | 39 | -- |
| 1968 | 45 | 16 | -- | -- | -- | -- | 45 | 16 |
| 1969 | 67 | 25 | 16 | -- | -- | -- | 67 | 25 |
| 1970 | 92 | 30 | -- | -- | 2 | -- | 92 | 32 |
| 1971 | 130 | 32 | 28 | -- | -- | 7 | 130 | 32 |
| 1972 | 117 | 60 | 48 | -- | -- | 8 | 117 | 60 |
| 1973 | 140 | 67 | 28 | 1 | -- | 41 | 141 | 67 |
| 1974 | 117 | 77 | 43 | -- | 2 | 40 | 117 | 79 |
| 1975 | 133 | 106 | 41 | 3 | 1 | 36 | 136 | 107 |
| 1976 | 132 | 89 | -- | 2 | 2 | -- | 134 | 91 |
| 1977 | 132 | 104 | 75 | 2 | 2 | 1 | 134 | 106 |
| 1978 | 142 | 116 | 83 | 5 | 2 | 1 | 147 | 118 |
| 1979 | 137 | 115 | 94 | 5 | 2 | 1 | 142 | 117 |
| 1980 | 147 | 115 | 93 | 6 | 2 | 1 | 153 | 117 |
| 1981 | 145 | 112 | 96 | 5 | 1 | 1 | 150 | 113 |

Confederation College of Applied Arts and Technology:

Technology, Two-Year Programmes

[illegible]

Table 32
Confederation College of Applied Arts and Technology:
Technology, Two-Year Programmes

| Year | Electronics Technician | | | | Electronics Technician - TV and Audio | | | | Electrical Technician | | | | | | |
|---------|------------------------|----------|-----------|-----------------|---------------------------------------|----------|----------|-----------|-----------------------|-----------------|----------|----------|-----------|-----------------|-----------------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 |
| Males | | | | | | | | | | | | | | | |
| 1967 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1968 | 45 | 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1969 | 39 | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1971 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 | -- | -- | -- | -- |
| 1972 | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9 | 5 | -- | -- | -- |
| 1973 | 23 | -- | -- | -- | -- | 11 | -- | -- | -- | -- | 20 | 9 | -- | -- | -- |
| 1974 | 20 | -- | -- | -- | -- | 1 | 4 | -- | -- | -- | 14 | 12 | -- | -- | -- |
| 1975 | 24 | 10 | -- | -- | -- | 3 | 9 | -- | -- | -- | 20 | 10 | -- | -- | -- |
| 1976 | 19 | 20 | -- | -- | -- | 4 | -- | -- | -- | -- | 28 | 8 | -- | -- | -- |
| 1977 | 20 | 15 | 17 | 4 | 3 | 5 | 3 | -- | 1 | -- | 30 | 18 | 7 | 10 | 1 |
| 1978 | 22 | 18 | 12 | 2 | 3 | 5 | 3 | 3 | 2 | -- | 32 | 21 | 15 | 9 | 3 |
| 1979 | 21 | 18 | 15 | 4 | 3 | 5 | 3 | 3 | 2 | -- | 33 | 21 | 18 | 11 | 3 |
| 1980 | 21 | 18 | 15 | 3 | 3 | 5 | 3 | 3 | 2 | -- | 32 | 21 | 18 | 11 | 3 |
| 1981 | 21 | 17 | 15 | 4 | 3 | 5 | 3 | 3 | 2 | -- | 31 | 21 | 18 | 11 | 3 |
| Females | | | | | | | | | | | | | | | |
| 1976 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1977 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1978 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1979 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1980 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1981 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 33

Confederation College of Applied Arts and Technology:

Technology, Two-Year Programmes

| Year | Mechanical Technician | | | | Survey Technician | | | | | |
|---------|-----------------------|----------|-----------|-----------------|-------------------|----------|----------|-----------|-----------------|-----------------|
| | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 | 1st Year | 2nd Year | Graduates | Dropouts Year 1 | Dropouts Year 2 |
| Males | | | | | | | | | | |
| 1970 | 12 | 5 | -- | -- | -- | -- | -- | -- | -- | -- |
| 1971 | 25 | 7 | -- | -- | -- | 8 | -- | -- | -- | -- |
| 1972 | 12 | 8 | -- | -- | -- | 7 | 2 | -- | -- | -- |
| 1973 | 34 | 8 | -- | -- | -- | 7 | 6 | -- | -- | -- |
| 1974 | 11 | 12 | -- | -- | -- | 12 | 4 | -- | -- | -- |
| 1975 | 16 | 8 | -- | -- | -- | 7 | 7 | -- | -- | -- |
| 1976 | 16 | 13 | -- | -- | -- | 15 | 2 | -- | -- | -- |
| 1977 | 15 | 12 | 11 | 4 | 2 | 13 | 9 | 1 | 6 | 1 |
| 1978 | 17 | 13 | 10 | 2 | 2 | 16 | 9 | 7 | 4 | 2 |
| 1979 | 18 | 13 | 11 | 4 | 2 | 12 | 8 | 7 | 8 | 2 |
| 1980 | 17 | 14 | 11 | 4 | 2 | 18 | 9 | 6 | 3 | 2 |
| 1981 | 17 | 13 | 12 | 4 | 2 | 18 | 8 | 7 | 10 | 2 |
| Females | | | | | | | | | | |
| 1973 | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- |
| 1974 | -- | -- | -- | -- | -- | -- | 2 | -- | -- | -- |
| 1975 | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- |
| 1976 | -- | -- | -- | -- | -- | 1 | 2 | -- | -- | -- |
| 1977 | -- | -- | -- | -- | -- | 2 | 2 | 1 | -- | 1 |
| 1978 | -- | -- | -- | -- | -- | 3 | 2 | 1 | 1 | 1 |
| 1979 | -- | -- | -- | -- | -- | 3 | 2 | 1 | 1 | 1 |
| 1980 | -- | -- | -- | -- | -- | 4 | 2 | 1 | 3 | 1 |
| 1981 | -- | -- | -- | -- | -- | 3 | 1 | 1 | -- | 1 |

Table 34
Confederation College of Applied Arts and Technology:
Technology, Three-Year Programmes

| Year | Architectural Technology | | | | Civil Technology | | | | Total: All Three-Year Programmes | | | |
|---------|--------------------------|----------|----------|-----------------|------------------|----------|----------|-----------------|----------------------------------|----------|----------|-----------------|
| | 1st Year | 2nd Year | 3rd Year | Dropouts Year 3 | 1st Year | 2nd Year | 3rd Year | Dropouts Year 3 | 1st Year | 2nd Year | 3rd Year | Dropouts Year 3 |
| Males | | | | | | | | | | | | |
| 1968 | -- | -- | -- | -- | 22 | -- | -- | -- | 22 | -- | -- | -- |
| 1969 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1970 | -- | -- | -- | -- | 1 | 11 | 7 | -- | 1 | 11 | 7 | 8 |
| 1971 | -- | -- | 1 | -- | -- | 7 | 12 | -- | -- | 7 | 13 | 10 |
| 1972 | -- | -- | -- | -- | -- | 11 | 7 | -- | -- | 11 | 7 | 12 |
| 1973 | -- | 1 | -- | -- | 15 | 9 | 8 | -- | 15 | 10 | 8 | 7 |
| 1974 | -- | -- | 2 | -- | 4 | 16 | 7 | -- | 4 | 16 | 9 | 10 |
| 1975 | -- | 7 | -- | -- | 14 | 8 | 12 | -- | 14 | 15 | 12 | 10 |
| 1976 | -- | 17 | 8 | -- | 9 | 15 | 6 | -- | 9 | 32 | 14 | 9 |
| 1977 | -- | 12 | 12 | 1 | 11 | 8 | 8 | 7 | 11 | 20 | 20 | 13 |
| 1978 | -- | 12 | 10 | 1 | 11 | 8 | 6 | 8 | 11 | 20 | 16 | 14 |
| 1979 | -- | 12 | 10 | 1 | 11 | 8 | 6 | 6 | 11 | 20 | 16 | 14 |
| 1980 | -- | 12 | 10 | 1 | 11 | 8 | 6 | 7 | 11 | 20 | 16 | 14 |
| 1981 | -- | 12 | 10 | 1 | 11 | 8 | 6 | 6 | 11 | 20 | 16 | 14 |
| Females | | | | | | | | | | | | |
| 1975 | -- | -- | -- | -- | 1 | 1 | -- | -- | 1 | 1 | -- | -- |
| 1976 | -- | -- | -- | -- | 1 | -- | 1 | -- | 1 | -- | 1 | -- |
| 1977 | -- | -- | -- | -- | 1 | 1 | 1 | -- | 1 | 1 | 1 | 1 |
| 1978 | -- | -- | -- | -- | 1 | 1 | -- | -- | 1 | 1 | 1 | 1 |
| 1979 | -- | -- | -- | -- | 1 | 1 | 1 | -- | 1 | 1 | 1 | 1 |
| 1980 | -- | -- | -- | -- | 1 | 1 | -- | -- | 1 | 1 | 1 | 1 |
| 1981 | -- | -- | -- | -- | 1 | 1 | 1 | -- | 1 | 1 | 1 | 1 |

Table 35

Actual and Projected Geographical Background of Male New Entrants at Confederation College

| Year | Northwestern Ontario | | | | Ontario Excl. Toronto and Northwestern Ontario | | Foreign | | Other Provinces | | Total |
|------|----------------------|----------------|----------------|-------------|---|------------------|-----------|-----------|--------------------|--|--------------|
| | Kenora | Rainy River | Thunder Bay | Total | Metro Toronto | Total Ontario | | | | | |
| 1971 | 34 9.5 | 18 5.0 | 242 67.6 | 294 82.1 | 3 0.8 | 47 13.1 | 5 1.4 | 9 2.5 | | | 358 100.0 |
| 1972 | 39 10.5 | 18 4.8 | 222 59.5 | 279 74.8 | 2 0.5 | 66 17.7 | 13 3.5 | 13 3.5 | | | 373 100.0 |
| 1973 | 26 7.1 | 17 4.7 | 243 66.6 | 286 78.4 | 2 0.5 | 56 15.3 | 10 2.7 | 11 3.0 | | | 365 100.0 |
| 1974 | 24 7.7 | 18 5.8 | 227 72.8 | 269 86.2 | 3 0.9 | 29 9.3 | 1 0.3 | 10 3.2 | | | 312 100.0 |
| 1975 | 26 7.3 | 28 7.8 | 218 61.1 | 272 72.6 | 4 1.1 | 54 15.1 | 6 1.7 | 21 5.9 | | | 357 100.0 |
| 1976 | 36 11.4 | 13 4.1 | 187 59.4 | 236 74.9 | 8 2.5 | 56 17.8 | 2 0.6 | 13 4.1 | | | 315 100.0 |
| 1977 | 31 9.5 | 17 5.5 | 203 63.0 | 250 77.5 | 5 1.5 | 52 16.0 | 3 1.0 | 13 4.0 | | | 322 100.0 |
| 1978 | 32 | 19 | 214 | 263 | 5 | 54 | 3 | 14 | | | 339 |
| 1979 | 32 | 18 | 209 | 257 | 5 | 53 | 3 | 13 | | | 332 |
| 1980 | 32 | 19 | 213 | 262 | 5 | 54 | 3 | 14 | | | 338 |
| 1981 | 31 | 18 | 205 | 252 | 5 | 52 | 3 | 13 | | | 325 |

Table 36

Actual and Projected Geographical Background of Female New Entrants at Confederation College

| Year | Northwestern Ontario | | | Ontario Excl. Toronto and Northwestern Ontario | | Foreign | Other Provinces | Total |
|------|----------------------|----------------|----------------|---|------------------|------------|--------------------|--------------|
| | Kenora | Rainy River | Thunder Bay | Total | Metro Toronto | | | |
| 1971 | 23 9.7 | 15 6.3 | 175 73.8 | 213 89.9 | 3 1.3 | 18 7.6 | 2 0.8 | 237 100.0 |
| 1972 | 15 5.0 | 26 8.7 | 218 73.2 | 259 86.9 | 1 0.3 | 32 10.7 | 3 1.0 | 298 100.0 |
| 1973 | 49 10.7 | 43 9.4 | 320 69.0 | 412 90.0 | 2 0.4 | 37 8.1 | 5 1.1 | 458 100.0 |
| 1974 | 43 10.3 | 38 9.1 | 308 73.5 | 389 92.8 | 2 0.5 | 25 6.0 | 3 0.7 | 419 100.0 |
| 1975 | 38 9.3 | 35 8.6 | 288 70.4 | 361 88.0 | 1 0.3 | 38 9.3 | 3 0.7 | 409 100.0 |
| 1976 | 39 10.0 | 25 6.4 | 290 74.6 | 354 91.0 | 0 0.0 | 27 6.9 | 1 0.3 | 389 100.0 |
| 1977 | 40 10.0 | 30 7.5 | 297 73.5 | 368 91.0 | 0 0.0 | 28 7.0 | 2 0.5 | 404 100.0 |
| 1978 | 43 | 32 | 314 | 389 | 0 | 30 | 2 | 427 |
| 1979 | 42 | 31 | 306 | 379 | 0 | 29 | 2 | 417 |
| 1980 | 43 | 32 | 312 | 387 | 0 | 30 | 2 | 425 |
| 1981 | 41 | 31 | 301 | 372 | 0 | 29 | 2 | 409 |

Table 37

Actual and Projected Geographical Background of All New Entrants at Confederation College

| Year | Northwestern Ontario | | | | Ontario Excl. Toronto and Northwestern Ontario | | Foreign Provinces | | Total |
|------|----------------------|----------------|----------------|-------------|---|------------------|----------------------|-----------|--------------|
| | Kenora | Rainy River | Thunder Bay | Total | Metro Toronto | Total Ontario | | | |
| 1971 | 57 9.6 | 33 5.6 | 417 70.1 | 507 85.2 | 6 1.0 | 65 10.9 | 7 1.2 | 10 1.7 | 595 100.0 |
| 1972 | 54 8.0 | 44 6.5 | 440 65.1 | 538 79.6 | 3 0.4 | 98 14.5 | 21 3.1 | 16 2.4 | 676 100.0 |
| 1973 | 75 9.1 | 60 7.3 | 563 68.4 | 698 84.8 | 4 0.5 | 93 11.3 | 15 1.8 | 13 1.6 | 823 100.0 |
| 1974 | 67 9.2 | 56 7.7 | 535 73.2 | 658 90.0 | 5 0.7 | 54 8.1 | 4 0.6 | 10 1.4 | 731 100.0 |
| 1975 | 64 8.4 | 63 8.2 | 506 66.1 | 633 82.6 | 5 0.7 | 92 12.0 | 9 1.2 | 27 3.5 | 766 100.0 |
| 1976 | 75 10.7 | 38 5.4 | 477 67.8 | 590 83.8 | 8 1.1 | 83 11.8 | 3 0.4 | 20 2.8 | 704 100.0 |
| 1977 | 71 9.5 | 47 6.5 | 500 68.5 | 618 84.5 | 5 1.0 | 80 11.5 | 5 0.5 | 19 2.5 | 726 100.0 |
| 1978 | 75 | 51 | 528 | 652 | 5 | 84 | 5 | 20 | 766 |
| 1979 | 74 | 49 | 515 | 636 | 5 | 82 | 5 | 19 | 749 |
| 1980 | 75 | 51 | 525 | 649 | 5 | 84 | 5 | 20 | 763 |
| 1981 | 72 | 49 | 506 | 624 | 5 | 81 | 5 | 19 | 734 |

Ontario, has contributed 8 to 10 percent of the total enrolment at Confederation College. Males and females have been nearly equal in number. Female enrolments from Kenora are projected to be 10 percent of total enrolment to 1981, and male enrolments from Kenora are projected to be 9.5 percent.

The Rainy River District, with 10.6 percent of the population in Northwestern Ontario, has contributed between 5.4 and 8.2 percent of the total enrolment at the College since 1971. It has consistently contributed a larger portion of the female enrolment (6.3 to 9.4 percent) than of the male enrolment (4.1 to 7.8 percent). Female and male enrolments from this District are projected to be 7.5 percent and 5.5 percent of total female and male enrolments, respectively, until 1981.

Female enrolments from Northwestern Ontario have consistently been a larger share of total female enrolments than male enrolments from the Region have been of total male enrolments. Female enrolments from the Region are projected to be 91 percent of the total, and male enrolments 77.5 percent of the total. It is apparent that the College is contributing to the educational opportunities of women in Northwestern Ontario, but it is also apparent that the College is not expanding the educational opportunities of either males or females with equal effectiveness throughout the entire Region.

4. Educational backgrounds of new entrants

Tables 38 to 40 (pages 52 to 54) contain projections of new entrants to Confederation College from the several educational backgrounds. These projections are based on the assumption that the ratio of each of these sources to the total will remain constant. New entrants between 1977 and 1981 differ from the first-year enrolments shown in Tables 5 and 6 by the predicted constant difference between new entrants and first-year enrolments.

The sex distribution of the educational backgrounds of Confederation College students does not lend itself to generalisation as easily as that of their geographical origins. The most notable difference between the sexes is probably the larger number of males who have post-secondary-school experience, particularly some university training.

About 80 percent of the new entrants to the College are graduates of grade 12 or 13. More than 50 percent of these entrants have grade 12 diplomas as their highest academic qualification. It is predicted that 52 percent of total new enrolments (53.5 percent of the females, and 48 percent of the males) will have this qualification during the years up to 1981.

The third largest source of male new entrants and the second largest source of female new entrants is the group that has completed grade 12 plus part of grade 13 (Honours Graduation Diploma). Thirteen and six tenths percent of female new entrants, 10 percent of male new entrants, and 11.9 percent of total new entrants are expected to have this qualification.

A secondary school honours graduation diploma has been the highest academic qualification of about 12 percent of the new entrants. The proportion of males and females is almost equal. In the projections to 1981 it is assumed that this diploma will be the highest academic qualification of 13 percent of the males and 12 percent of the females entering Confederation College.

It is also assumed that 81 percent of the new entrants will have high school qualifications of one kind or another. Though a sizeable minority of new entrants in the early 1970s had not completed grade 12 this group has grown very much smaller in recent years. In the projections to 1981 it is assumed that only 5 percent of the new

Table 38

Actual and Projected Educational Level of Male New Students at Confederation College

| Year | Elementary | Secondary Below SSCD | Secondary SSCD | Secondary SSCD Part SSCD | Secondary SSCD | Combine All | University Attended | University Graduate | Professional Certificate | Other Post-Secondary | RETRG | NPS | Apprenticeship | CAAT Qualifying | Other | Total |
|------|------------|----------------------|----------------|--------------------------|----------------|-------------|---------------------|---------------------|--------------------------|----------------------|-------|-----|----------------|-----------------|-------|-------|
| 1971 | 1 0.3 | * | * | * | * | 269 78.2 | 19 5.5 | | 3 | 12 | 17 | | 6 | 0 | 17 | 344 |
| | | | | | | | | | 0.9 | 3.5 | 4.9 | | 1.7 | 0.0 | 4.9 | 100.0 |
| 1972 | 0 0.0 | * | * | * | * | 264 76.1 | 41 11.8 | | 5 | 6 | 10 | | 9 | 1 | 11 | 347 |
| | | | | | | | | | 1.4 | 1.7 | 2.9 | | 2.6 | 0.3 | 3.2 | 100.0 |
| 1973 | 0 0.0 | 60 17.4 | 196 57.0 | 3 0.9 | 41 11.9 | 300 87.2 | 14 4.1 | 4 1.2 | 0 | 7 | 12 | | 2 | 1 | 4 | 344 |
| | | | | | | | | | 0.0 | 2.0 | 3.5 | | 0.6 | 0.3 | 1.2 | 100.0 |
| 1974 | 1 0.3 | 41 13.1 | 180 57.7 | 11 3.5 | 43 13.8 | 275 88.1 | 9 2.9 | 6 1.9 | 1 | 15 | 4 | | 0 | 0 | 1 | 312 |
| | | | | | | | | | 0.3 | 4.8 | 1.2 | | 0.0 | 0.0 | 0.3 | 100.0 |
| 1975 | 1 0.3 | 20 5.6 | 187 52.4 | 52 14.6 | 27 7.6 | 286 80.1 | 25 7.0 | 2 0.6 | 1 | 16 | 14 | | 0 | 3 | 9 | 357 |
| | | | | | | | | | 0.3 | 4.5 | 3.9 | | 0.0 | 0.8 | 2.5 | 100.0 |
| 1976 | 1 0.3 | 15 4.8 | 144 45.7 | 34 10.8 | 41 13.0 | 234 74.3 | 19 6.0 | 9 2.9 | 0 | 12 | 15 | | 3 | 3 | 19 | 315 |
| | | | | | | | | | 0.0 | 3.8 | 4.8 | | 1.0 | 1.0 | 6.0 | 100.0 |
| 1977 | 1 0.3 | 16 5.0 | 155 48.0 | 32 10.0 | 42 13.0 | 245 76.0 | 19 6.0 | 10 3.0 | 0 | 13 | 16 | | 0 | 3 | 23 | 322 |
| | | | | | | | | | 0.0 | 4.0 | 5.0 | | 0.0 | 1.0 | 7.0 | 100.0 |
| 1978 | 1 | 17 | 163 | 34 | 44 | 258 | 20 | 10 | 0 | 14 | 17 | | 0 | 3 | 24 | 339 |
| 1979 | 1 | 17 | 159 | 33 | 43 | 252 | 20 | 10 | 0 | 13 | 17 | | 0 | 3 | 23 | 332 |
| 1980 | 1 | 17 | 162 | 34 | 44 | 257 | 20 | 10 | 0 | 14 | 17 | | 0 | 3 | 24 | 338 |
| 1981 | 1 | 16 | 156 | 33 | 42 | 247 | 20 | 10 | 0 | 13 | 16 | | 0 | 3 | 23 | 325 |

*Not available.

Table 39

Actual and Projected Educational Level of Female New Students at Confederation College

| Year | Elementary | Secondary | Below SS | Secondary SS | Secondary SS | Part SS | Secondary SS | Combine All | University Attended | University Graduate | Professional Certificate | Other Post-Secondary | RETRG NPS | Apprenticeship | CAAT Qualifying | Other | Total |
|------|------------|-----------|-------------|--------------|--------------|-------------|--------------|-------------|---------------------|---------------------|--------------------------|----------------------|-----------|----------------|-----------------|------------|--------------|
| 1971 | 1 0.4 | * | * | * | * | * | * | 188 80.4 | 13 5.6 | | 2 0.9 | 10 4.3 | 9 3.9 | 0 0.0 | 2 0.9 | 9 3.9 | 234 100.0 |
| 1972 | 1 0.3 | * | * | * | * | * | * | 254 87.0 | 19 6.5 | | 2 0.7 | 1 0.3 | 4 1.4 | 2 0.7 | 0 0.0 | 9 3.1 | 292 100.0 |
| 1973 | 2 0.4 | 25 5.5 | 242 53.7 | 5 1.1 | 58 12.9 | 330 73.2 | 15 3.3 | 5 1.1 | | | 3 0.7 | 3 0.7 | 7 1.6 | 0 0.0 | 2 0.4 | 84 18.6 | 451 100.0 |
| 1974 | 1 0.2 | 20 4.8 | 281 67.1 | 29 6.9 | 66 15.8 | 396 94.5 | 9 2.2 | 2 0.5 | | | 1 0.2 | 6 1.4 | 1 0.2 | 0 0.0 | 1 0.2 | 2 0.5 | 419 100.0 |
| 1975 | 1 0.3 | 23 5.6 | 237 58.0 | 46 11.3 | 37 9.1 | 343 83.9 | 19 4.7 | 4 1.0 | | | 6 1.5 | 9 2.2 | 10 2.5 | 0 0.0 | 9 2.2 | 8 2.0 | 409 100.0 |
| 1976 | 1 0.3 | 21 5.4 | 213 54.8 | 50 12.9 | 44 11.3 | 328 84.3 | 18 4.6 | 1 0.3 | | | 4 1.0 | 9 2.3 | 17 4.4 | 0 0.0 | 3 0.8 | 8 2.1 | 389 100.0 |
| 1977 | 1 0.3 | 22 5.5 | 206 53.5 | 55 13.6 | 48 12.0 | 339 84.0 | 18 4.5 | 2 0.5 | | | 4 1.0 | 9 2.3 | 20 5.0 | 0 0.0 | 3 0.7 | 8 2.0 | 404 100.0 |
| 1978 | 1 | 23 | 228 | 58 | 51 | 359 | 19 | 2 | | | 4 | 10 | 21 | 0 | 3 | 9 | 427 |
| 1979 | 1 | 23 | 223 | 57 | 50 | 350 | 19 | 2 | | | 4 | 10 | 21 | 0 | 3 | 8 | 417 |
| 1980 | 1 | 23 | 227 | 58 | 51 | 357 | 19 | 2 | | | 4 | 10 | 21 | 0 | 2 | 9 | 425 |
| 1981 | 1 | 22 | 219 | 56 | 49 | 344 | 18 | 2 | | | 4 | 9 | 20 | 0 | 3 | 8 | 409 |

*Not available.

Table 40

Actual and Projected Educational Level of All New Entrants at Confederation College

| Year | Elementary | Secondary Below SS GD | Secondary SS GD | Secondary SS CH | Part SS CH GD | Secondary SS CH GD | Combine All | University Attended | University Graduate | Professional Certificate | Other Post-Secondary | RETRG NPS | Apprenticeship | CAAT Qualifying | Other | Total |
|------|------------|-----------------------|-----------------|-----------------|---------------|--------------------|-------------|---------------------|---------------------|--------------------------|----------------------|-----------|----------------|-----------------|------------|--------------|
| 1971 | 2 0.4 | * | * | * | * | * | 457 79.1 | 32 5.5 | 5 | 0.9 | 22 | 26 4.5 | 6 | 2 0.4 | 26 4.5 | 578 100.0 |
| 1972 | 1 0.2 | * | * | * | * | * | 518 81.1 | 60 9.4 | 7 | 1.1 | 7 | 14 2.2 | 11 | 1 0.2 | 20 3.1 | 639 100.0 |
| 1973 | 2 0.3 | 85 10.7 | 438 55.1 | 8 1.0 | 99 12.5 | 630 79.3 | 29 3.7 | 9 1.1 | 3 | 0.4 | 10 | 19 2.4 | 2 | 3 0.4 | 88 11.1 | 795 100.0 |
| 1974 | 2 0.3 | 61 8.4 | 461 63.1 | 40 5.5 | 109 14.9 | 671 91.8 | 18 2.5 | 8 1.1 | 2 | 0.3 | 21 | 5 0.7 | 0 | 1 0.3 | 3 0.4 | 731 100.0 |
| 1975 | 2 0.3 | 43 5.6 | 424 55.4 | 98 12.8 | 64 8.4 | 629 82.1 | 44 5.7 | 6 0.8 | 7 | 0.9 | 25 | 24 3.1 | 0 | 12 1.6 | 17 2.2 | 766 100.0 |
| 1976 | 2 0.3 | 36 5.1 | 357 50.7 | 84 11.9 | 85 12.1 | 562 79.8 | 37 5.3 | 10 1.4 | 4 | 0.6 | 21 | 32 4.6 | 3 | 6 0.9 | 27 3.8 | 704 100.0 |
| 1977 | 2 0.3 | 38 5.0 | 361 52.0 | 87 12.0 | 90 12.0 | 584 81.0 | 37 5.0 | 2 1.2 | 4 | 0.6 | 22 | 36 4.0 | 0 | 6 0.8 | 31 4.1 | 726 100.0 |
| 1978 | 2 | 40 | 391 | 92 | 95 | 617 | 39 | 12 | 4 | 4 | 24 | 37 | 0 | 6 | 33 | 766 |
| 1979 | 2 | 40 | 382 | 90 | 93 | 602 | 39 | 12 | 4 | 4 | 23 | 38 | 0 | 6 | 31 | 749 |
| 1980 | 2 | 40 | 389 | 92 | 95 | 614 | 39 | 12 | 4 | 4 | 24 | 38 | 0 | 5 | 33 | 763 |
| 1981 | 2 | 38 | 375 | 89 | 91 | 591 | 38 | 12 | 4 | 4 | 22 | 36 | 0 | 6 | 31 | 734 |

*Not available.

entrants will not have completed grade 12. It is also assumed that a very small number of students with only an elementary school education will be admitted; this group will amount to only a fraction of 1 percent of the total.

A small percentage of the new entrants have some university experience, and a few are even university graduates. In the projections to 1981 6 percent of the male and 4.5 percent of the female new entrants are assumed to have some university experience. It is projected that male university graduates will make up 3.0 percent of the new enrolments in the years until 1981.

In keeping with the appointed task of the colleges to bring post-secondary education to a wide spectrum of the population it is assumed that a large minority of students will enter Confederation College with what once would have been unconventional preparation for post-secondary school. In the projections presented above it is assumed that 0.67 percent of the new entrants of both sexes will have professional certificates, 3.0 percent will have some kind of post-secondary experience other than college or university, 4.0 percent will be from non-post-secondary retraining programmes, 0.8 percent will be from CAAT qualifying courses, and 4.1 percent will have some other qualification.

CHAPTER IV

PROJECTIONS OF UNIVERSITY ENROLMENT, GRADUATES, AND LEAVERS

There is one university in Northwestern Ontario: Lakehead University in Thunder Bay, which shares with Confederation College the responsibility of providing post-secondary education to the Region. Like the College, Lakehead University is of more immediate service to the people in Thunder Bay than to those in other parts of the Region. However, it has the same motivations to mount programmes that will be attractive to outsiders and foreigners that all universities have. Not surprisingly, it is more difficult to relate first-year enrolments at Lakehead University to a basic educational/demographic variable than it is to relate Confederation College enrolments to such a variable. Since there is no other method of projecting first-year enrolments for a university that seems appropriate to the geographical, political, and financial conditions under which this and other Ontario universities operate, however, the number of grade 13 graduates leaving in the previous spring was chosen as the basic educational/demographic variable for these projections.

1. Methodology

As in the projections for Confederation College, the conceptual basis of these projections is a flow model applied to stock data. The basic stock data are again first-year enrolment statistics.

First-year enrolments for undergraduates were projected by applying a coefficient of transition to the total number of grade 13 graduates the previous spring (Table 41, page 57). The coefficient of transition was selected after examining the pattern of enrolments to graduates in recent years. Enrolments in the post-first-degree bachelor of education programme have been assumed to be constant between 1977 and 1981, and that constant value has been added to the projected first-year enrolments for all other programmes (Table 42, page 58).

Total undergraduate enrolments have been projected by applying a coefficient representing year-to-year retentions to actual and projected first-year enrolments for all undergraduate programmes combined (Table 43, page 59).

Undergraduate enrolments for each degree programme were projected separately by applying programme-specific retention coefficients to actual and projected first-year enrolments for each programme (Tables 46 to 55, pages 62 to 71). In turn, first-year enrolments were projected for each programme by estimating, on the basis of trends in the historical statistics, what portion of the projected first-year enrolments in the university each programme will occupy. The projections in Table 44 (page 60), which are sums of the programme-specific projections to 1981, demonstrate the congruity of these separate projections to the university projections.

Enrolments in the diploma (non-degree) undergraduate programme of the university were projected just as Confederation College enrolments were (see Table 56, page 72). First-year enrolments were projected as a proportion of total grade 12 graduations in the Region, this coefficient representing observed past trends. Enrolments in second and third years are projected by applying a retention coefficient to actual and projected first-year enrolments. This coefficient was again chosen after examining past statistics and trends.

Table 41

Lakehead University:

Actual and Projected Enrolment of Full-Time First-Year Undergraduates

| Year | Grade 13 Graduates One Year Earlier | 1st-Year Enrolment | 1st-Year Enrolment as a Percentage of Grade 13 Graduates | | Bachelor of Education | 1st Year Plus B. Ed. |
|---------|--|-----------------------|---|--|--------------------------|-------------------------|
| | | | Males | | | |
| 1972 | 452 | 359 | 79.4 | | 86 | 486 |
| 1973 | 452 | 359 | 79.4 | | 76 | 435 |
| 1974 | 444 | 387 | 87.2 | | 52 | 439 |
| 1975 | 398 | 344 | 86.4 | | 98 | 442 |
| 1976 | 421 | 409 | 97.4 | | 103 | 512 |
| 1977 | 432 | 393 | 90.3 | | 97 | 487 |
| 1978 | 432 | 393 | 90.3 | | 97 | 487 |
| 1979 | 454 | 409 | 90.1 | | 97 | 506 |
| 1980 | 444 | 400 | 90.1 | | 97 | 497 |
| 1981 | 451 | 407 | 90.2 | | 97 | 504 |
| Females | | | | | | |
| 1972 | -- | 207 | -- | | 70 | 277 |
| 1973 | 368 | 251 | 68.2 | | 71 | 322 |
| 1974 | 364 | 222 | 61.6 | | 76 | 298 |
| 1975 | 325 | 278 | 85.5 | | 90 | 368 |
| 1976 | 344 | 318 | 92.4 | | 83 | 401 |
| 1977 | 354 | 303 | 85.0 | | 85 | 386 |
| 1978 | 354 | 303 | -- | | 85 | 386 |
| 1979 | 371 | 315 | -- | | 85 | 400 |
| 1980 | 363 | 309 | -- | | 85 | 394 |
| 1981 | 369 | 314 | -- | | 85 | 399 |

Table 42

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment, Bachelor of Education

| Year | Males | | Females | | Total | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Enrolment | Graduates | Enrolment | Graduates | Enrolment | Graduates |
| 1972 | 86 | | 70 | | 156 | |
| 1973 | 76 | | 71 | | 147 | |
| 1974 | 52 | | 76 | | 128 | |
| 1975 | 98 | | 90 | | 188 | |
| 1976 | 103 | | 83 | | 186 | |
| 1977 | 97 | 87 | 85 | 76 | 182 | 163 |
| 1978 | 97 | 87 | 85 | 76 | 182 | 163 |
| 1979 | 97 | 87 | 85 | 76 | 182 | 163 |
| 1980 | 97 | 87 | 85 | 76 | 182 | 163 |
| 1981 | 97 | 87 | 85 | 76 | 182 | 163 |

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | R/R | 5th Year | Total |
|---------|-------------|------|-------------|-------|-------------|------|-------------|------|-------------|-------|
| Males | | | | | | | | | | |
| 1972 | 486 | 55.1 | 308 | 76.0 | 298 | 61.7 | 189 | 17.5 | 0 | 1281 |
| 1973 | 435 | 62.3 | 268 | 90.3 | 234 | 79.5 | 184 | 20.7 | 33 | 1154 |
| 1974 | 439 | 65.6 | 271 | 84.9 | 242 | 78.5 | 186 | 23.1 | 38 | 1176 |
| 1975 | 442 | 56.6 | 288 | 101.0 | 230 | 81.3 | 190 | 23.2 | 43 | 1193 |
| 1976 | 512 | | 250 | | 291 | | 186 | | 44 | 1283 |
| 1977 | 487 | | 307 | | 225 | | 233 | | 43 | 1295 |
| 1978 | 487 | | 292 | | 276 | | 180 | | 54 | 1289 |
| 1979 | 506 | | 292 | | 263 | | 221 | | 42 | 1324 |
| 1980 | 497 | | 304 | | 263 | | 210 | | 51 | 1325 |
| 1981 | 504 | | 298 | | 274 | | 210 | | 49 | 1335 |
| Females | | | | | | | | | | |
| 1972 | 277 | 51.3 | 205 | 67.3 | 145 | 49.0 | 48 | | 0 | 675 |
| 1973 | 322 | 68.0 | 142 | 84.5 | 138 | 44.9 | 71 | | 0 | 673 |
| 1974 | 298 | 71.1 | 219 | 82.2 | 120 | 45.8 | 62 | 1.6 | 0 | 699 |
| 1975 | 368 | 61.4 | 212 | 82.6 | 180 | 56.1 | 55 | 3.6 | 1 | 816 |
| 1976 | 401 | | 226 | | 175 | | 101 | | 2 | 906 |
| 1977 | 386 | | 251 | | 185 | | 84 | | 1 | 907 |
| 1978 | 386 | | 241 | | 206 | | 89 | | 1 | 923 |
| 1979 | 400 | | 241 | | 198 | | 99 | | 1 | 939 |
| 1980 | 394 | | 250 | | 198 | | 95 | | 1 | 938 |
| 1981 | 399 | | 246 | | 205 | | 95 | | 1 | 946 |
| Total | | | | | | | | | | |
| 1972 | 763 | 53.7 | 513 | 72.5 | 443 | 57.6 | 237 | 13.9 | 0 | 1956 |
| 1973 | 757 | 64.7 | 410 | 88.3 | 372 | 66.7 | 255 | 14.9 | 33 | 1827 |
| 1974 | 737 | 67.8 | 490 | 83.7 | 362 | 67.7 | 248 | 17.7 | 38 | 1875 |
| 1975 | 810 | 58.8 | 500 | 89.4 | 410 | 71.0 | 245 | 18.8 | 44 | 2009 |
| 1976 | 913 | | 476 | | 466 | | 287 | | 46 | 2188 |
| 1977 | 873 | | 558 | | 410 | | 317 | | 44 | 2202 |
| 1978 | 873 | | 533 | | 482 | | 269 | | 55 | 2212 |
| 1979 | 906 | | 533 | | 461 | | 320 | | 43 | 2263 |
| 1980 | 891 | | 554 | | 461 | | 305 | | 52 | 2263 |
| 1981 | 903 | | 544 | | 479 | | 305 | | 50 | 2281 |

*Retention Rate

Table 44

Lakehead University:

Projected Full-Time Undergraduate Enrolment

| Year | 1st Year | 2nd Year | 3rd Year | 4th Year | 5th Year | Total |
|---------|----------|----------|----------|----------|----------|-------|
| Males | | | | | | |
| 1977 | 490 | 312 | 222 | 219 | 50 | 1293 |
| 1978 | 490 | 307 | 269 | 196 | 53 | 1315 |
| 1979 | 505 | 312 | 264 | 220 | 53 | 1354 |
| 1980 | 497 | 315 | 270 | 216 | 53 | 1351 |
| 1981 | 504 | 316 | 273 | 222 | 53 | 1368 |
| Females | | | | | | |
| 1977 | 388 | 249 | 174 | 96 | 3 | 910 |
| 1978 | 390 | 258 | 187 | 94 | 2 | 931 |
| 1979 | 400 | 254 | 187 | 104 | 2 | 947 |
| 1980 | 395 | 254 | 193 | 105 | 2 | 949 |
| 1981 | 398 | 257 | 191 | 107 | 2 | 955 |
| Total | | | | | | |
| 1977 | 878 | 561 | 396 | 315 | 53 | 2203 |
| 1978 | 880 | 565 | 456 | 290 | 55 | 2246 |
| 1979 | 905 | 566 | 451 | 324 | 55 | 2301 |
| 1980 | 892 | 569 | 463 | 321 | 55 | 2300 |
| 1981 | 902 | 573 | 464 | 329 | 55 | 2323 |

Distribution of First-Year Students by Programme, Degree, and Sex

| Year | B. Teaching | B.P.E. B.Sc. P.Ed. Rec. | B.A. Se.B. Eng. | B.Sc. License ES Sciences | B.A. | | B.Forestry | | B. Comm. B.B.A. | B. Social Work | B.N. | | Total |
|---------|-------------|----------------------------------|-----------------------|------------------------------------|---------|------|------------|-------------------|--------------------|-------------------|-----------------------|------------------|-------|
| | | | | | Letters | ES | Forestry | B.Sc. Forestry | | | Nursing Post-Basic | B.Sc. Nursing | |
| | | | | | | | | | | | | | |
| Males | | | | | | | | | | | | | |
| 1972 | 10 | 32 | 23 | 120 | 113 | 75 | 35 | 0 | 1 | 1 | 1 | 392 | |
| | 2.6 | 8.2 | 5.9 | 26.0 | 28.8 | 19.1 | 8.9 | | 0.3 | | 0.3 | 100.0 | |
| 1973 | 6 | 33 | 20 | 93 | 86 | 71 | 45 | 0 | 0 | 1 | 1 | 355 | |
| | 1.7 | 9.3 | 5.6 | 26.2 | 24.2 | 20.0 | 12.7 | | | 0.3 | | 100.0 | |
| 1974 | 6 | 41 | 14 | 82 | 96 | 85 | 49 | 3 | 1 | 3 | 3 | 380 | |
| | 1.6 | 10.8 | 3.7 | 21.6 | 25.3 | 22.4 | 12.9 | 0.8 | 0.3 | 0.8 | | 100.0 | |
| 1975 | 12 | 46 | 15 | 63 | 67 | 79 | 46 | 7 | 0 | 1 | 1 | 336 | |
| | 3.6 | 13.7 | 4.5 | 18.8 | 19.9 | 23.5 | 13.7 | 2.1 | | 0.3 | | 100.0 | |
| 1976 | 14 | 52 | 4 | 99 | 94 | 73 | 66 | 3 | 1 | 2 | 2 | 405 | |
| | 3.5 | 12.8 | 1.0 | 24.4 | 23.2 | 18.0 | 16.3 | 0.8 | 0.3 | 0.5 | | 100.0 | |
| 1977 | 14 | 52 | 0 | 98 | 94 | 70 | 59 | 3 | 1 | 2 | 2 | 393 | |
| 1978 | 14 | 52 | 0 | 98 | 94 | 70 | 59 | 3 | 1 | 2 | 2 | 393 | |
| 1979 | 14 | 53 | 0 | 102 | 98 | 74 | 61 | 3 | 1 | 2 | 2 | 409 | |
| 1980 | 14 | 52 | 0 | 100 | 96 | 72 | 60 | 3 | 1 | 2 | 2 | 400 | |
| 1981 | 14 | 54 | 0 | 101 | 98 | 73 | 61 | 3 | 1 | 2 | 2 | 407 | |
| Females | | | | | | | | | | | | | |
| 1972 | 9 | 27 | 0 | 20 | 84 | 1 | 5 | 0 | 13 | 28 | 187 | | |
| | 4.8 | 14.4 | | 10.7 | 44.9 | 0.5 | 2.7 | | 7.0 | 15.0 | | 100.0 | |
| 1973 | 23 | 34 | 0 | 33 | 85 | 8 | 9 | 11 | 10 | 38 | 251 | | |
| | 9.2 | 13.5 | | 13.1 | 33.9 | 3.2 | 3.6 | 4.4 | 4.0 | 15.1 | | 100.0 | |
| 1974 | 9 | 13 | 0 | 30 | 95 | 6 | 8 | 12 | 12 | 37 | 222 | | |
| | 4.1 | 5.9 | | 13.5 | 42.8 | 2.7 | 3.6 | 5.4 | 5.4 | 16.7 | | 100.0 | |
| 1975 | 29 | 29 | 0 | 26 | 93 | 13 | 15 | 28 | 15 | 35 | 283 | | |
| | 10.2 | 10.2 | | 9.2 | 32.9 | 4.6 | 5.3 | 9.9 | 5.3 | 12.4 | | 100.0 | |
| 1976 | 51 | 39 | 0 | 30 | 95 | 13 | 19 | 19 | 16 | 36 | 313 | | |
| | 16.3 | 12.5 | | 9.6 | 30.4 | 4.2 | 6.1 | 6.1 | 5.1 | 11.5 | | 100.0 | |
| 1977 | 40 | 40 | 0 | 30 | 96 | 12 | 17 | 18 | 15 | 35 | 303 | | |
| 1978 | 40 | 40 | 0 | 30 | 96 | 12 | 17 | 18 | 15 | 35 | 303 | | |
| 1979 | 42 | 40 | 0 | 32 | 100 | 13 | 17 | 19 | 16 | 37 | 315 | | |
| 1980 | 41 | 40 | 0 | 31 | 98 | 12 | 17 | 19 | 16 | 36 | 309 | | |
| 1981 | 41 | 41 | 0 | 31 | 100 | 13 | 17 | 19 | 16 | 36 | 314 | | |

Table 46

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment

Bachelor of Arts and Honours Bachelor of Arts

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|------|-------------|-------|-------------|------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 113 | | 113 | | 139 | | 45 | 410 | | |
| 1973 | 86 | 76.1 | 86 | 75.2 | 85 | 20.1 | 28 | 285 | | |
| 1974 | 96 | 79.1 | 68 | 89.5 | 77 | 34.1 | 29 | 270 | | |
| 1975 | 67 | 55.2 | 53 | 92.7 | 63 | 37.7 | 29 | 212 | | |
| 1976 | 94 | 94.0 | 63 | 109.4 | 61 | 34.9 | 23 | 241 | | |
| 1977 | 94 | | 71 | | 57 | | 21 | 243 | 40 | 20 |
| 1978 | 94 | | 71 | | 64 | | 20 | 249 | 43 | 19 |
| 1979 | 98 | | 74 | | 64 | | 22 | 258 | 41 | 21 |
| 1980 | 96 | | 72 | | 67 | | 22 | 257 | 44 | 21 |
| 1981 | 98 | | 74 | | 65 | | 24 | 261 | 42 | 23 |
| Females | | | | | | | | | | |
| 1972 | 84 | | 86 | | 78 | | 14 | 262 | | |
| 1973 | 85 | 64.7 | 55 | 73.3 | 63 | 14.1 | 11 | 214 | | |
| 1974 | 95 | 95.3 | 81 | 98.2 | 54 | 28.6 | 18 | 248 | | |
| 1975 | 93 | 75.8 | 72 | 98.8 | 80 | 22.2 | 12 | 257 | | |
| 1976 | 75 | 84.9 | 80 | 87.5 | 65 | 27.5 | 22 | 262 | | |
| 1977 | 96 | | 76 | | 72 | | 17 | 261 | 49 | 16 |
| 1978 | 96 | | 77 | | 68 | | 18 | 259 | 57 | 17 |
| 1979 | 100 | | 80 | | 69 | | 17 | 266 | 55 | 16 |
| 1980 | 98 | | 79 | | 72 | | 18 | 267 | 57 | 17 |
| 1981 | 100 | | 80 | | 71 | | 19 | 270 | 55 | 18 |
| Total | | | | | | | | | | |
| 1972 | 197 | | 199 | | 217 | | 59 | 672 | | |
| 1973 | 171 | | 141 | | 148 | | 39 | 499 | | |
| 1974 | 191 | | 149 | | 131 | | 47 | 518 | | |
| 1975 | 160 | | 125 | | 143 | | 41 | 469 | | |
| 1976 | 189 | | 143 | | 126 | | 45 | 503 | | |
| 1977 | 190 | | 147 | | 129 | | 38 | 504 | 89 | 36 |
| 1978 | 190 | | 148 | | 132 | | 38 | 508 | 100 | 36 |
| 1979 | 198 | | 154 | | 133 | | 39 | 524 | 96 | 37 |
| 1980 | 194 | | 151 | | 139 | | 40 | 524 | 101 | 38 |
| 1981 | 198 | | 154 | | 136 | | 43 | 531 | 97 | 41 |

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment
Bachelor of Science and Honours Bachelor of Science

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|-------|-------------|------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 102 | 56.9 | 60 | 76.7 | 56 | 46.4 | 23 | 241 | | |
| 1973 | 93 | 74.2 | 58 | 98.3 | 46 | | 26 | 223 | | |
| 1974 | 82 | 93.9 | 69 | 94.2 | 57 | 60.9 | 28 | 236 | | |
| 1975 | 63 | 84.1 | 77 | 90.9 | 65 | 35.1 | 20 | 225 | | |
| 1976 | 99 | | 53 | | 77 | 32.3 | 22 | 251 | | |
| 1977 | 98 | | 79 | | 50 | | 25 | 252 | 26 | 24 |
| 1978 | 102 | | 78 | | 74 | | 16 | 266 | 40 | 14 |
| 1979 | 100 | | 78 | | 74 | | 24 | 278 | 39 | 22 |
| 1980 | 100 | | 81 | | 74 | | 24 | 279 | 44 | 22 |
| 1981 | 101 | | 80 | | 76 | | 24 | 281 | 42 | 22 |
| Females | | | | | | | | | | |
| 1972 | 20 | 75.0 | 17 | 111.8 | 16 | 50.0 | 2 | 55 | | |
| 1973 | 33 | 72.7 | 15 | 86.7 | 19 | 31.6 | 8 | 75 | | |
| 1974 | 30 | 100.0 | 24 | 83.3 | 13 | 53.8 | 6 | 73 | | |
| 1975 | 26 | 73.3 | 30 | 80.0 | 20 | 45.0 | 7 | 83 | | |
| 1976 | 30 | | 19 | | 24 | | 9 | 82 | | |
| 1977 | 30 | | 22 | | 15 | | 8 | 75 | 8 | 8 |
| 1978 | 30 | | 22 | | 18 | | 5 | 75 | 8 | 5 |
| 1979 | 32 | | 22 | | 18 | | 6 | 78 | 8 | 6 |
| 1980 | 31 | | 23 | | 18 | | 6 | 78 | 8 | 6 |
| 1981 | 31 | | 23 | | 18 | | 6 | 78 | 8 | 6 |
| Total | | | | | | | | | | |
| 1972 | 122 | | 77 | | 72 | | 25 | 296 | | |
| 1973 | 126 | | 73 | | 65 | | 34 | 298 | | |
| 1974 | 112 | | 93 | | 70 | | 34 | 309 | | |
| 1975 | 89 | | 107 | | 85 | | 27 | 308 | | |
| 1976 | 129 | | 72 | | 101 | | 31 | 333 | | |
| 1977 | 128 | | 101 | | 65 | | 33 | 327 | 34 | 30 |
| 1978 | 128 | | 100 | | 92 | | 21 | 341 | 48 | 19 |
| 1979 | 134 | | 100 | | 92 | | 30 | 356 | 47 | 28 |
| 1980 | 131 | | 104 | | 92 | | 30 | 357 | 52 | 28 |
| 1981 | 132 | | 103 | | 94 | | 30 | 359 | 50 | 28 |

*Retention Rate

Table 48

Lakehead University:
Actual and Projected Full-Time Undergraduate Enrolment
Honours Bachelor of Science in Forestry

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|-------|-------------|-------------|--------------------|---|---|
| Males | | | | | | | | | |
| 1972 | 75 | | 38 | 84.2 | 40 | 29 | 182 | | |
| 1973 | 71 | 68.0 | 51 | | 32 | 35 | 189 | | |
| 1974 | 85 | 90.1 | 64 | 94.1 | 48 | 29 | 226 | | |
| 1975 | 79 | 76.5 | 65 | 84.4 | 54 | 44 | 242 | | |
| 1976 | 73 | 70.9 | 56 | 96.9 | 65 | 38 | 232 | | |
| 1977 | 70 | | 56 | | 54 | 59 | 239 | | 55 |
| 1978 | 70 | | 54 | | 54 | 49 | 227 | | 46 |
| 1979 | 74 | | 54 | | 52 | 49 | 229 | | 46 |
| 1980 | 72 | | 57 | | 52 | 47 | 228 | | 44 |
| 1981 | 73 | | 55 | | 55 | 47 | 230 | | 44 |
| Females | | | | | | | | | |
| 1972 | 1 | | 1 | 200.0 | 1 | 1 | 4 | | |
| 1973 | 8 | 200.0 | 2 | | 2 | 0 | 12 | | |
| 1974 | 6 | 100.0 | 8 | 50.0 | 1 | 0 | 15 | | |
| 1975 | 13 | 150.0 | 9 | 75.0 | 6 | 1 | 29 | | |
| 1976 | 13 | 61.5 | 8 | 55.6 | 5 | 5 | 31 | | |
| 1977 | 12 | | 12 | | 6 | 4 | 34 | | 4 |
| 1978 | 12 | | 12 | | 10 | 5 | 39 | | 5 |
| 1979 | 13 | | 13 | | 10 | 8 | 44 | | 8 |
| 1980 | 12 | | 12 | | 11 | 8 | 43 | | 8 |
| 1981 | 13 | | 13 | | 10 | 8 | 44 | | 8 |
| Total | | | | | | | | | |
| 1972 | 76 | | 39 | | 41 | 30 | 186 | | |
| 1973 | 79 | | 53 | | 34 | 35 | 201 | | |
| 1974 | 91 | | 72 | | 49 | 29 | 241 | | |
| 1975 | 92 | | 74 | | 60 | 45 | 271 | | |
| 1976 | 86 | | 64 | | 70 | 43 | 263 | | |
| 1977 | 82 | | 68 | | 60 | 63 | 273 | | 59 |
| 1978 | 82 | | 66 | | 64 | 54 | 266 | | 51 |
| 1979 | 87 | | 67 | | 62 | 57 | 273 | | 54 |
| 1980 | 84 | | 69 | | 63 | 55 | 271 | | 52 |
| 1981 | 86 | | 68 | | 65 | 55 | 274 | | 52 |

*Retention Rate

Table 49

Lakehead University:
Actual and Projected Full-Time Undergraduate Enrolment
Bachelor of Engineering (Post-Diploma) and Bachelor of Applied Science

| Year | 1st Year | R/R* | 2nd Year | R/R | 4th Year | R/R | 5th Year | Total Enrolment | Estimated Graduates 4-Year Programme | Estimated Graduates 5-Year Programme |
|---------|-------------|------|-------------|-----|-------------|-------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 23 | | 7 | | 36 | 91.7 | | 66 | | |
| 1973 | 20 | | | | 39 | 97.4 | 33 | 92 | | |
| 1974 | 14 | | | | 42 | 102.4 | 38 | 94 | | |
| 1975 | 15 | | | | 47 | 95.7 | 43 | 105 | | |
| 1976 | 4 | | | | 53 | | 44 | 101 | | |
| 1977 | | | | | 55 | | 50 | 105 | | 48 |
| 1978 | | | | | 55 | | 53 | 108 | | 50 |
| 1979 | | | | | 55 | | 53 | 108 | | 50 |
| 1980 | | | | | 55 | | 53 | 108 | | 50 |
| 1981 | | | | | 55 | | 53 | 108 | | 50 |
| Females | | | | | | | | | | |
| 1974 | | | | | 1 | 100.0 | 0 | 1 | | |
| 1975 | | | | | 2 | 50.0 | 1 | 3 | | |
| 1976 | | | | | 4 | | 2 | 6 | | |
| 1977 | | | | | 2 | | 3 | 5 | | 3 |
| 1978 | | | | | 3 | | 2 | 5 | | 2 |
| 1979 | | | | | 3 | | 2 | 5 | | 2 |
| 1980 | | | | | 3 | | 2 | 5 | | 2 |
| 1981 | | | | | 3 | | 2 | 5 | | 2 |
| Total | | | | | | | | | | |
| 1972 | 23 | | 7 | | 36 | | | 66 | | |
| 1973 | 20 | | | | 39 | | 33 | 92 | | |
| 1974 | 14 | | | | 43 | | 38 | 95 | | |
| 1975 | 15 | | | | 49 | | 44 | 108 | | |
| 1976 | 4 | | | | 57 | | 46 | 107 | | |
| 1977 | | | | | | | | 110 | | 51 |
| 1978 | | | | | | | | 113 | | 52 |
| 1979 | | | | | | | | 113 | | 52 |
| 1980 | | | | | | | | 113 | | 52 |
| 1981 | | | | | | | | 113 | | 52 |

*Retention Rate

Table 50

Lakehead University:
Actual and Projected Full-Time Undergraduate Enrolment
Basic Degree Programme, Bachelor of Science in Nursing

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|-------|-------------|-----|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 1 | | 2 | 100.0 | 1 | | 0 | 4 | | |
| 1973 | 1 | 200.0 | 0 | | 2 | | 0 | 3 | | |
| 1974 | 3 | | 2 | 100.0 | 0 | | 1 | 6 | | |
| 1975 | 1 | 66.7 | 2 | | 2 | | 0 | 5 | | |
| 1976 | 2 | | 0 | | 2 | | 2 | 6 | | |
| 1977 | 2 | | 2 | | 0 | | 2 | 6 | | 2 |
| 1978 | 2 | | 2 | | 2 | | 0 | 6 | | -- |
| 1979 | 2 | | 2 | | 2 | | 2 | 8 | | 2 |
| 1980 | 2 | | 2 | | 2 | | 2 | 8 | | 2 |
| 1981 | 2 | | 2 | | 2 | | 2 | 8 | | 2 |
| Females | | | | | | | | | | |
| 1972 | 28 | | 14 | 100.0 | 18 | | 14 | 74 | | |
| 1973 | 38 | 71.4 | 20 | | 14 | | 16 | 88 | | |
| 1974 | 37 | 76.3 | 29 | 80.0 | 16 | | 7 | 89 | | |
| 1975 | 35 | 83.9 | 31 | 93.1 | 27 | | 14 | 107 | | |
| 1976 | 36 | 74.3 | 26 | 87.1 | 27 | | 24 | 113 | | |
| 1977 | 35 | | 28 | | 24 | | 24 | 111 | | 23 |
| 1978 | 35 | | 27 | | 25 | | 20 | 107 | | 19 |
| 1979 | 37 | | 27 | | 24 | | 22 | 110 | | 21 |
| 1980 | 36 | | 28 | | 24 | | 21 | 109 | | 20 |
| 1981 | 36 | | 28 | | 25 | | 21 | 110 | | 20 |
| Total | | | | | | | | | | |
| 1972 | 29 | | 16 | | 19 | | 14 | 78 | | |
| 1973 | 39 | | 20 | | 16 | | 16 | 91 | | |
| 1974 | 40 | | 31 | | 16 | | 8 | 95 | | |
| 1975 | 36 | | 33 | | 29 | | 14 | 112 | | |
| 1976 | 38 | | 27 | | 29 | | 26 | 119 | | |
| 1977 | 37 | | 30 | | 23 | | 26 | 117 | | 25 |
| 1978 | 37 | | 29 | | 27 | | 20 | 113 | | 19 |
| 1979 | 39 | | 29 | | 26 | | 24 | 118 | | 23 |
| 1980 | 38 | | 30 | | 26 | | 23 | 117 | | 22 |
| 1981 | 38 | | 30 | | 27 | | 23 | 118 | | 22 |

Retention Rate

Lakehead University:
Actual and Projected Full-Time Undergraduate Enrolment
Post-Diploma Degree Programme in Nursing

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|------|-------------|-----|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 1 | | 2 | | 4 | | | 7 | | |
| 1973 | 0 | | 0 | | 1 | | | 1 | | |
| 1974 | 1 | | 0 | 50.0 | 0 | | | 1 | | |
| 1975 | 0 | | 1 | | 0 | | | 1 | | |
| 1976 | 1 | 100.0 | 0 | | 1 | | | 2 | | |
| 1977 | 1 | | 1 | | 1 | | | 3 | | |
| 1978 | 1 | | 1 | | 1 | | | 3 | 1 | |
| 1979 | 1 | | 1 | | 1 | | | 3 | 1 | |
| 1980 | 1 | | 1 | | 1 | | | 3 | 1 | |
| 1981 | 1 | | 1 | | 1 | | | 3 | 1 | |
| Females | | | | | | | | | | |
| 1972 | 13 | | 20 | | 7 | | | 40 | | |
| 1973 | 10 | 76.9 | 10 | 75.0 | 15 | | | 35 | | |
| 1974 | 12 | 130.0 | 13 | 40.0 | 4 | | | 29 | | |
| 1975 | 15 | 83.3 | 10 | 53.9 | 7 | | | 32 | | |
| 1976 | 16 | 73.3 | 11 | 30.0 | 3 | | | 30 | | |
| 1977 | 15 | | 13 | | 4 | | | 32 | 7 | |
| 1978 | 16 | | 12 | | 5 | | | 33 | 8 | |
| 1979 | 15 | | 13 | | 5 | | | 33 | 7 | |
| 1980 | 16 | | 12 | | 5 | | | 33 | 8 | |
| 1981 | 15 | | 13 | | 5 | | | 33 | 7 | |
| Total | | | | | | | | | | |
| 1972 | 14 | | 22 | | 11 | | | 47 | | |
| 1973 | 10 | | 10 | | 16 | | | 36 | | |
| 1974 | 13 | | 13 | | 4 | | | 30 | | |
| 1975 | 15 | | 11 | | 7 | | | 33 | | |
| 1976 | 17 | | 11 | | 4 | | | 32 | | |
| 1977 | 16 | | 14 | | 5 | | | 35 | 8 | |
| 1978 | 17 | | 13 | | 6 | | | 36 | 9 | |
| 1979 | 16 | | 14 | | 6 | | | 36 | 8 | |
| 1980 | 17 | | 13 | | 6 | | | 36 | 9 | |
| 1981 | 16 | | 14 | | 6 | | | 36 | 8 | |

*Retention Rate

Table 52

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment

Honours Bachelor of Physical and Health Education and Bachelor of Physical Education in Outdoor Recreation

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|-------|-------------|-------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 32 | | 42 | 76.2 | 26 | | 36 | 136 | | |
| 1973 | 33 | 71.9 | 23 | 100.0 | 32 | 80.8 | 21 | 109 | | |
| 1974 | 41 | 75.8 | 25 | | 23 | 100.0 | 32 | 121 | | |
| 1975 | 46 | 100.0 | 41 | 88.0 | 22 | 104.4 | 24 | 133 | | |
| 1976 | 52 | 82.6 | 38 | 70.7 | 29 | 104.5 | 23 | 142 | | |
| 1977 | 52 | | 41 | | 27 | | 29 | 149 | | 27 |
| 1978 | 52 | | 42 | | 29 | | 27 | 150 | | 25 |
| 1979 | 53 | | 44 | | 29 | | 29 | 155 | | 27 |
| 1980 | 52 | | 43 | | 31 | | 29 | 155 | | 27 |
| 1981 | 54 | | 44 | | 30 | | 31 | 159 | | 29 |
| Females | | | | | | | | | | |
| 1972 | 27 | | 17 | 82.4 | 15 | 100.0 | 11 | 70 | | |
| 1973 | 34 | 85.2 | 23 | 91.3 | 14 | 107.1 | 15 | 86 | | |
| 1974 | 13 | 73.5 | 25 | | 21 | 57.1 | 15 | 74 | | |
| 1975 | 29 | 200.0 | 26 | 76.0 | 19 | 89.5 | 12 | 86 | | |
| 1976 | 39 | 86.2 | 25 | 73.1 | 19 | | 17 | 100 | | |
| 1977 | 40 | | 33 | | 18 | | 17 | 108 | | 16 |
| 1978 | 40 | | 34 | | 24 | | 18 | 116 | | 17 |
| 1979 | 40 | | 34 | | 25 | | 22 | 121 | | 21 |
| 1980 | 40 | | 34 | | 25 | | 23 | 122 | | 22 |
| 1981 | 41 | | 34 | | 25 | | 23 | 123 | | 21 |
| Total | | | | | | | | | | |
| 1972 | 59 | | 59 | | 41 | | 47 | 206 | | |
| 1973 | 67 | | 46 | | 46 | | 36 | 195 | | |
| 1974 | 54 | | 50 | | 44 | | 47 | 195 | | |
| 1975 | 75 | | 67 | | 41 | | 36 | 219 | | |
| 1976 | 91 | | 63 | | 48 | | 40 | 242 | | |
| 1977 | 92 | | 74 | | 45 | | 46 | 257 | | 43 |
| 1978 | 92 | | 76 | | 53 | | 45 | 266 | | 42 |
| 1979 | 93 | | 78 | | 54 | | 51 | 276 | | 48 |
| 1980 | 92 | | 77 | | 56 | | 52 | 277 | | 49 |
| 1981 | 95 | | 78 | | 55 | | 54 | 282 | | 51 |

*Retention Rate

Actual and Projected Full-Time Undergraduate Enrolment
Honours Bachelor of Commerce and Bachelor of Administration

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|------|-------------|-------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 35 | | 36 | | 28 | | 16 | 115 | | |
| 1973 | 45 | 108.6 | 38 | 77.8 | 28 | 82.1 | 23 | 134 | | |
| 1974 | 49 | 82.2 | 37 | 81.6 | 31 | 75.0 | 21 | 138 | | |
| 1975 | 46 | 73.5 | 36 | 59.5 | 22 | 74.2 | 23 | 127 | | |
| 1976 | 66 | 67.4 | 35 | 75.0 | 51 | 109.1 | 24 | 176 | | |
| 1977 | 59 | | 47 | | 25 | | 24 | 155 | 1 | 22 |
| 1978 | 59 | | 44 | | 38 | | 23 | 165 | 3 | 21 |
| 1979 | 61 | | 44 | | 35 | | 34 | 174 | 2 | 31 |
| 1980 | 60 | | 46 | | 35 | | 32 | 173 | 2 | 29 |
| 1981 | 61 | | 45 | | 37 | | 32 | 175 | 2 | 29 |
| Females | | | | | | | | | | |
| 1972 | 5 | | 3 | | 2 | | 1 | 11 | | |
| 1973 | 9 | 80.0 | 4 | 66.7 | 2 | 150.0 | 3 | 18 | | |
| 1974 | 8 | 100.0 | 9 | 0.0 | 0 | 100.0 | 2 | 19 | | |
| 1975 | 15 | 175.0 | 14 | 44.4 | 4 | 0.0 | 0 | 33 | | |
| 1976 | 19 | 106.7 | 17 | 92.9 | 15 | 200.0 | 8 | 59 | | |
| 1977 | 17 | | 15 | | 14 | | 13 | 60 | 0 | 12 |
| 1978 | 17 | | 15 | | 14 | | 14 | 60 | 0 | 13 |
| 1979 | 17 | | 16 | | 14 | | 14 | 61 | 0 | 13 |
| 1980 | 17 | | 15 | | 14 | | 14 | 60 | 0 | 13 |
| 1981 | 17 | | 16 | | 14 | | 14 | 61 | 0 | 13 |
| Total | | | | | | | | | | |
| 1972 | 40 | | 39 | | 30 | | 17 | 126 | | |
| 1973 | 54 | | 42 | | 30 | | 26 | 152 | | |
| 1974 | 57 | | 46 | | 31 | | 23 | 157 | | |
| 1975 | 61 | | 50 | | 26 | | 23 | 160 | | |
| 1976 | 85 | | 52 | | 66 | | 32 | 235 | | |
| 1977 | 76 | | 62 | | 39 | | 37 | 215 | 1 | 34 |
| 1978 | 76 | | 59 | | 52 | | 37 | 225 | 3 | 34 |
| 1979 | 78 | | 60 | | 49 | | 48 | 235 | 2 | 44 |
| 1980 | 77 | | 61 | | 49 | | 46 | 233 | 2 | 42 |
| 1981 | 78 | | 61 | | 51 | | 46 | 236 | 2 | 42 |

*Retention Rate

Table 54

Lakehead University:
Actual and Projected Full-Time Undergraduate Enrolment
Honours Bachelor of Social Work

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|-------|-------------|-------|-------------|-------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 0 | | 0 | | 0 | | 0 | 0 | | |
| 1973 | 0 | | 1 | | 2 | | 9 | 12 | | |
| 1974 | 3 | | 1 | 400.0 | 4 | 150.0 | 3 | 11 | | |
| 1975 | 7 | 100.0 | 3 | 200.0 | 2 | 50.0 | 2 | 14 | | |
| 1976 | 3 | 57.1 | 4 | 100.0 | 3 | 100.0 | 2 | 12 | | |
| 1977 | 3 | | 3 | | 4 | | 3 | 13 | | 3 |
| 1978 | 3 | | 3 | | 3 | | 4 | 13 | | 4 |
| 1979 | 3 | | 3 | | 3 | | 3 | 12 | | 3 |
| 1980 | 3 | | 3 | | 3 | | 3 | 12 | | 3 |
| 1981 | 3 | | 3 | | 3 | | 3 | 12 | | 3 |
| Females | | | | | | | | | | |
| 1972 | 0 | | 0 | | 0 | | 0 | 0 | | |
| 1973 | 11 | | 5 | | 5 | | 11 | 32 | | |
| 1974 | 12 | 81.8 | 9 | 180.5 | 9 | 200.0 | 10 | 40 | | |
| 1975 | 28 | 141.7 | 17 | 70.6 | 12 | 77.8 | 7 | 64 | | |
| 1976 | 19 | 60.7 | 17 | 70.6 | 12 | 75.0 | 9 | 57 | | |
| 1977 | 18 | | 17 | | 12 | | 9 | 56 | | 9 |
| 1978 | 19 | | 16 | | 12 | | 9 | 56 | | 9 |
| 1979 | 19 | | 17 | | 12 | | 9 | 57 | | 9 |
| 1980 | 19 | | 17 | | 13 | | 9 | 58 | | 9 |
| 1981 | 19 | | 17 | | 13 | | 10 | 59 | | 10 |
| Total | | | | | | | | | | |
| 1972 | 0 | | 0 | | 0 | | 0 | 0 | | |
| 1973 | 11 | | 6 | | 7 | | 20 | 44 | | |
| 1974 | 15 | | 10 | | 13 | | 13 | 51 | | |
| 1975 | 35 | | 20 | | 14 | | 9 | 78 | | |
| 1976 | 22 | | 21 | | 15 | | 11 | 69 | | |
| 1977 | 21 | | 20 | | 16 | | 12 | 69 | | 12 |
| 1978 | 22 | | 19 | | 15 | | 11 | 69 | | 13 |
| 1979 | 22 | | 20 | | 15 | | 12 | 69 | | 12 |
| 1980 | 22 | | 20 | | 16 | | 12 | 70 | | 13 |
| 1981 | 22 | | 20 | | 16 | | 13 | 71 | | 13 |

*Retention Rate

Lakehead University:

Actual and Projected Full-Time Undergraduate Enrolment

Four-Year Degree Programmes for Elementary-School Teachers and Secondary-School Teachers

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | R/R | 4th Year | Total Enrolment | Estimated Graduates 3-Year Programme | Estimated Graduates 4-Year Programme |
|---------|-------------|------|-------------|------|-------------|-------|-------------|--------------------|---|---|
| Males | | | | | | | | | | |
| 1972 | 10 | 90.0 | 4 | 50.0 | 4 | 50.0 | 4 | 22 | | |
| 1973 | 6 | 83.3 | 9 | 22.2 | 2 | 150.0 | 2 | 19 | | |
| 1974 | 6 | 83.3 | 5 | 0.0 | 2 | 50.0 | 3 | 16 | | |
| 1975 | 12 | 91.7 | 5 | 40.0 | 0 | | 1 | 18 | | |
| 1976 | 16 | | 11 | | 2 | | 0 | 29 | | |
| 1977 | 14 | | 12 | | 4 | | 1 | 31 | | 1 |
| 1978 | 14 | | 12 | | 4 | | 2 | 32 | | 2 |
| 1979 | 14 | | 12 | | 4 | | 2 | 32 | | 3 |
| 1980 | 14 | | 12 | | 5 | | 2 | 32 | | 3 |
| 1981 | 14 | | 12 | | 4 | | 3 | 33 | | 3 |
| Females | | | | | | | | | | |
| 1972 | 9 | 88.9 | 17 | 17.7 | 8 | 87.5 | 5 | 39 | | |
| 1973 | 23 | 91.3 | 8 | 25.0 | 3 | 33.3 | 7 | 41 | | |
| 1974 | 9 | 88.9 | 21 | 23.8 | 2 | 0.0 | 1 | 33 | | |
| 1975 | 29 | 75.9 | 8 | 62.5 | 5 | 40.0 | 0 | 42 | | |
| 1976 | 65 | | 22 | | 5 | | 2 | 94 | | |
| 1977 | 40 | | 33 | | 6 | | 2 | 81 | | 2 |
| 1978 | 40 | | 32 | | 8 | | 2 | 82 | | 3 |
| 1979 | 42 | | 32 | | 8 | | 3 | 85 | | 7 |
| 1980 | 41 | | 34 | | 8 | | 3 | 86 | | 5 |
| 1981 | 41 | | 33 | | 8 | | 3 | 85 | | 5 |
| Total | | | | | | | | | | |
| 1972 | 19 | | 21 | | 12 | | 9 | 61 | | |
| 1973 | 29 | | 17 | | 5 | | 9 | 60 | | |
| 1974 | 15 | | 26 | | 4 | | 4 | 29 | | |
| 1975 | 41 | | 13 | | 5 | | 1 | 60 | | |
| 1976 | 68 | | 23 | | 7 | | 2 | 111 | | |
| 1977 | 54 | | 45 | | 10 | | 3 | 112 | | 3 |
| 1978 | 54 | | 44 | | 12 | | 4 | 114 | | 5 |
| 1979 | 56 | | 44 | | 12 | | 5 | 117 | | 10 |
| 1980 | 55 | | 46 | | 13 | | 5 | 118 | | 8 |
| 1981 | 55 | | 45 | | 12 | | 6 | 118 | | 8 |

*Retention Rate

Table 56

Lakehead University:

Actual and Projected Full-Time Enrolment in the Non-University Diploma Programme

| Year | 1st Year | R/R* | 2nd Year | R/R | 3rd Year | Total | Graduates | |
|---------|-------------|-------|-------------|------|-------------|-------|------------------|------------------|
| | | | | | | | After 2 Years | After 3 Years |
| Males | | | | | | | | |
| 1972 | 166 | 88.6 | 133 | 60.2 | 42 | 341 | | |
| 1973 | 160 | 99.4 | 147 | 43.5 | 80 | 387 | | |
| 1974 | 162 | 105.6 | 159 | 45.3 | 64 | 385 | | |
| 1975 | 192 | 110.4 | 171 | 52.6 | 72 | 435 | | |
| 1976 | 133 | | 212 | | 90 | 435 | | |
| 1977 | 139 | | 141 | | 106 | 386 | 1 | 85 |
| 1978 | 145 | | 147 | | 71 | 363 | 0 | 57 |
| 1979 | 143 | | 154 | | 74 | 371 | 1 | 65 |
| 1980 | 145 | | 152 | | 77 | 374 | 1 | 68 |
| 1981 | 140 | | 154 | | 76 | 376 | 1 | 66 |
| Females | | | | | | | | |
| 1972 | 38 | 68.4 | 50 | 14.0 | 3 | 91 | | |
| 1973 | 24 | 87.5 | 26 | 7.7 | 7 | 57 | | |
| 1974 | 19 | 131.6 | 21 | 19.0 | 2 | 42 | | |
| 1975 | 48 | 75.0 | 25 | 20.0 | 4 | 77 | | |
| 1976 | 55 | | 36 | | 5 | 96 | | |
| 1977 | 61 | | 41 | | 7 | 109 | 2 | 6 |
| 1978 | 72 | | 46 | | 8 | 126 | 4 | 6 |
| 1979 | 77 | | 54 | | 9 | 140 | 6 | 7 |
| 1980 | 85 | | 58 | | 11 | 154 | 8 | 9 |
| 1981 | 82 | | 64 | | 12 | 158 | 8 | 10 |
| Total | | | | | | | | |
| 1972 | 204 | 84.8 | 183 | 47.5 | 45 | 432 | | |
| 1973 | 184 | 97.8 | 173 | 38.2 | 87 | 444 | | |
| 1974 | 181 | 108.3 | 180 | 42.2 | 66 | 427 | | |
| 1975 | 240 | 103.3 | 196 | 48.5 | 76 | 512 | | |
| 1976 | 188 | | 248 | | 95 | 531 | | |
| 1977 | 200 | | 182 | | 113 | 495 | 3 | 91 |
| 1978 | 217 | | 193 | | 79 | 489 | 4 | 63 |
| 1979 | 220 | | 208 | | 83 | 511 | 7 | 72 |
| 1980 | 230 | | 210 | | 88 | 528 | 9 | 77 |
| 1981 | 222 | | 218 | | 88 | 528 | 9 | 76 |

*Retention Rate

Two sets of projections of total future graduate enrolments have been made. As Table 62 (page 79) shows, graduate enrolments in the years 1973 to 1976 have been expressed both as a ratio of total undergraduate enrolments in previous years and as a ratio of total final-year undergraduate enrolments in previous years. The first set of projections is the product of applying to actual and projected total undergraduate enrolments a coefficient selected after examining the pattern in past ratios of graduate enrolments to undergraduate enrolments in the previous year. The second set of projections is the product of applying to the same enrolments a coefficient derived from the pattern in past ratios of graduate enrolments to final-year undergraduate enrolments in the previous year.

2. Results

Table 41 presents actual first-year enrolment data for undergraduate degree programmes at Lakehead University between 1972 and 1976 and first-year enrolment projections to 1981. As in the projections for Confederation College actual and projected first-year enrolments have been used as the stock data on which to base the projected flow of students through the university year by year.

Enrolments in the Bachelor of Education programme are presented separately (Table 42). This teacher preparation programme is a one-year post-degree programme leading to a second bachelor's degree. The enrolments in this programme are most appropriately handled separately from other first-year enrolments, though it should be noted that in the data from Statistics Canada (the main source of statistics on post-secondary education in this study), enrolments in this programme are included with other first-year enrolments.

Lakehead University is unusual in that it has a large enrolment in non-degree programmes. First-year enrolments in these programmes have been projected by applying a coefficient of transition, based on observed historical trends, to the total of grade 12 graduates in the Region. Second- and third-year enrolments have been projected on the basis of observed retention rates. The high retention rate of males from first to second year suggests that there is some transfer into the second year of the programme. Most of these transfers are probably grade 13 graduates given advanced placements. Actual enrolments for 1972 to 1976 and projections through 1981 for these non-degree programmes are shown in Table 56.

Table 45 shows the distribution of first-year enrolments in the various degree programmes between 1972 and 1976, and the projected enrolments until 1981. These projections assume only modest changes in the enrolment of most programmes. Table 43 shows projected enrolments for all years, both sexes, and all degree programmes.

Table 46 to 55 present actual undergraduate enrolments in each undergraduate programme between 1972 and 1976, and projected enrolments for the years 1977 to 1981. These enrolments are presented separately for each sex and for each year of study. Table 44 presents the sum of the projections in Tables 46 to 55.

The irregularity in the scale of activities in graduate studies makes projections a perilous undertaking. As Table 62 indicates, however, there is some consistency in the pattern of the ratios of graduate enrolments to undergraduate enrolments, and projections to 1981 have been made on the basis of these ratios. These projections indicate a modest growth in graduate enrolments, which will correspond to a projected increase in the rate of transition from undergraduate to graduate study.

Figure 3 (page 80) and Table 63 (page 81) present summaries of past and projected undergraduate, graduate, and non-degree enrolments at Lakehead University. The projections show that there will be virtually no growth in male enrolments and

Table 57

Lakehead University:

Actual and Projected Total Graduate Enrolment

| | M.A. | | M.Sc. | | M.Ed. | | Diplomas & Certificates | | | Total | | | | |
|------|------|----|-------|----|-------|----|-------------------------|----|----|-------|----|----|-----|-----|
| 1973 | 39 | 10 | 49 | 10 | 0 | 0 | 0 | 21 | 2 | 23 | 70 | 12 | 82 | |
| 1974 | 41 | 11 | 52 | 13 | 0 | 0 | 0 | 12 | 2 | 14 | 66 | 13 | 79 | |
| 1975 | 38 | 20 | 58 | 21 | 3 | 24 | 0 | 1 | 1 | 3 | 15 | 71 | 98 | |
| 1976 | 49 | 21 | 70 | 17 | 2 | 19 | 2 | 1 | 3 | 11 | 2 | 79 | 105 | |
| 1977 | 50 | 22 | 72 | 18 | 3 | 21 | 4 | 2 | 6 | 10 | 2 | 82 | 29 | 111 |
| 1978 | 55 | 23 | 78 | 18 | 3 | 21 | 6 | 3 | 9 | 10 | 2 | 89 | 31 | 120 |
| 1979 | 55 | 23 | 78 | 18 | 3 | 21 | 10 | 5 | 15 | 10 | 2 | 93 | 33 | 126 |
| 1980 | 55 | 23 | 78 | 18 | 3 | 21 | 10 | 5 | 15 | 10 | 2 | 93 | 33 | 126 |
| 1981 | 55 | 23 | 78 | 18 | 3 | 21 | 10 | 5 | 15 | 10 | 2 | 93 | 33 | 126 |

Table 58

Lakehead University:

Actual and Projected Full-Time Graduate Enrolment, Faculty of Arts - M.A.

| Year | Males | | Females | | Total | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Enrolment | Graduates | Enrolment | Graduates | Enrolment | Graduates |
| 1973 | 39 | | 10 | | 49 | |
| 1974 | 41 | | 11 | | 52 | |
| 1975 | 38 | | 20 | | 58 | |
| 1976 | 49 | | 21 | | 70 | |
| 1977 | 50 | 29 | 22 | 13 | 72 | 42 |
| 1978 | 55 | 30 | 23 | 13 | 78 | 43 |
| 1979 | 55 | 33 | 23 | 14 | 78 | 47 |
| 1980 | 55 | 33 | 23 | 14 | 78 | 47 |
| 1981 | 55 | 33 | 23 | 14 | 78 | 47 |

Table 59

Lakehead University:

Actual and Projected Full-Time Graduate Enrolment, Faculty of Science - M.Sc.

| Year | Males | | Females | | Total | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Enrolment | Graduates | Enrolment | Graduates | Enrolment | Graduates |
| 1973 | 10 | | 0 | | 10 | |
| 1974 | 13 | | 0 | | 13 | |
| 1975 | 21 | | 3 | | 24 | |
| 1976 | 17 | | 2 | | 19 | |
| 1977 | 18 | 10 | 3 | 2 | 21 | 12 |
| 1978 | 18 | 11 | 3 | 2 | 21 | 13 |
| 1979 | 18 | 11 | 3 | 2 | 21 | 13 |
| 1980 | 18 | 11 | 3 | 2 | 21 | 13 |
| 1981 | 18 | 11 | 3 | 2 | 21 | 13 |

Table 60

Lakehead University:

Actual and Projected Full-Time Graduate Enrolment, Master of Education

| Year | Males | | Females | | Total | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Enrolment | Graduates | Enrolment | Graduates | Enrolment | Graduates |
| 1972 | 0 | | 0 | | 0 | |
| 1973 | 0 | | 0 | | 0 | |
| 1974 | 0 | | 0 | | 0 | |
| 1975 | 0 | | 1 | | 1 | |
| 1976 | 2 | | 1 | | 3 | |
| 1977 | 4 | 2 | 2 | 1 | 6 | 4 |
| 1978 | 6 | 3 | 3 | 2 | 9 | 5 |
| 1979 | 10 | 5 | 5 | 2 | 15 | 7 |
| 1980 | 10 | 5 | 5 | 3 | 15 | 8 |
| 1981 | 10 | 5 | 5 | 3 | 15 | 8 |

Table 61

Lakehead University:

Actual and Projected Full-Time Graduate Enrolment, Diplomas and Certificates

| Year | Males | | Females | | Total | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Enrolment | Graduates | Enrolment | Graduates | Enrolment | Graduates |
| 1973 | 21 | | 2 | | 23 | |
| 1974 | 12 | | 2 | | 14 | |
| 1975 | 12 | | 3 | | 15 | |
| 1976 | 11 | | 2 | | 13 | |
| 1977 | 10 | 8 | 2 | 2 | 12 | 10 |
| 1978 | 10 | 8 | 2 | 2 | 12 | 10 |
| 1979 | 10 | 8 | 2 | 2 | 12 | 10 |
| 1980 | 10 | 8 | 2 | 2 | 12 | 10 |
| 1981 | 10 | 8 | 2 | 2 | 12 | 10 |

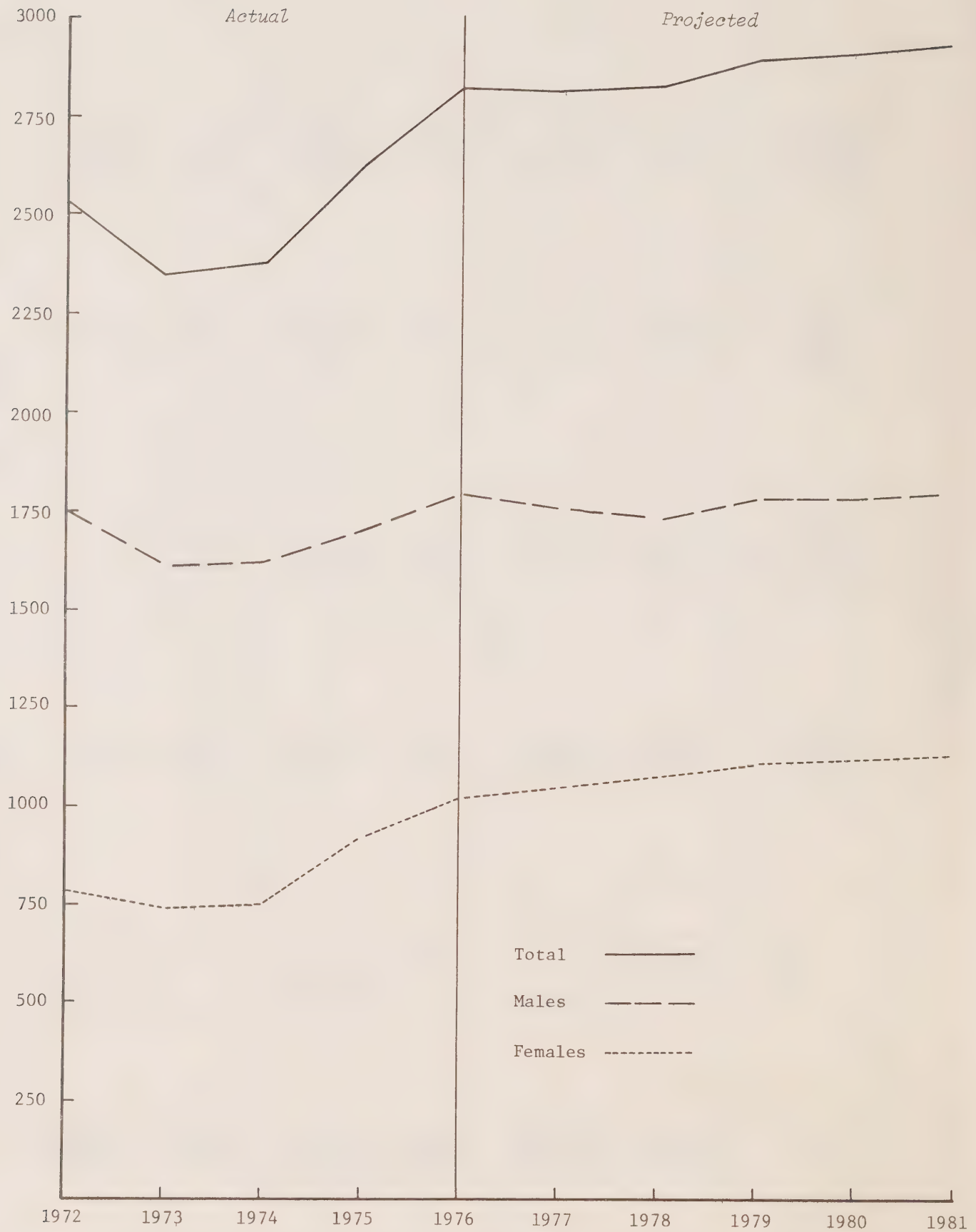
Lakehead University:
Actual and Projected Graduate Enrolment

| Year | Graduate Enrolment | Total Undergraduate Enrolment in Previous Year | Graduate Enrolment as a % of Total Undergraduate Enrolment Est. 1 | Final Year* Enrolment in Previous Year | Graduate Enrolment as a % of Final Year Enrolment Est. 2 |
|---------|-----------------------|--|--|---|---|
| Males | | | | | |
| 1973 | 70 | 1281 | 5.46 | 193 | 36.3 |
| 1974 | 66 | 1154 | 5.72 | 185 | 35.7 |
| 1975 | 71 | 1176 | 6.04 | 186 | 38.2 |
| 1976 | 79 | 1193 | 6.62 | 190 | 41.6 |
| | Est. 1 | Est. 2 | | | |
| 1977 | 87 | 1283 | 6.80 | 187 | 44.0 |
| 1978 | 91 | 1295 | 7.00 | 220 | 45.0 |
| 1979 | 92 | 1289 | 7.20 | 197 | 46.0 |
| 1980 | 98 | 1324 | 7.40 | 221 | 46.0 |
| 1981 | 99 | 1325 | 7.50 | 217 | 46.0 |
| Females | | | | | |
| 1973 | 12 | 675 | 1.78 | 55 | 21.8 |
| 1974 | 13 | 673 | 1.93 | 86 | 15.1 |
| 1975 | 27 | 699 | 3.86 | 66 | 40.9 |
| 1976 | 26 | 816 | 3.19 | 62 | 41.9 |
| | Est. 1 | Est. 2 | | | |
| 1977 | 29 | 906 | 3.20 | 104 | 40.2 |
| 1978 | 31 | 907 | 3.40 | 100 | 40.0 |
| 1979 | 33 | 923 | 3.60 | 99 | 40.0 |
| 1980 | 35 | 939 | 3.80 | 109 | 40.0 |
| 1981 | 35 | 938 | 3.80 | 110 | 40.0 |
| Total | | | | | |
| 1973 | 82 | 1956 | 4.19 | 248 | 33.1 |
| 1974 | 79 | 1827 | 4.32 | 271 | 29.2 |
| 1975 | 98 | 1875 | 5.23 | 252 | 38.9 |
| 1976 | 105 | 2009 | 5.23 | 252 | 41.7 |
| | Est. 1 | Est. 2 | | | |
| 1977 | 114 | 2188 | 5.23 | 291 | 42.0 |
| 1978 | 115 | 2202 | | 320 | 42.0 |
| 1979 | 116 | 2212 | | 296 | 42.0 |
| 1980 | 118 | 2263 | | 330 | 42.0 |
| 1981 | 118 | 2263 | | 327 | 42.0 |

*Can be the third or fourth year, depending on the faculty in which a student is enrolled.

Figure 3

Lakehead University: Actual and Projected Total Students



Lakehead University:

Total Full-time Graduate, Undergraduate, and Diploma Enrolment

| Year | Males | | | Females | | | Total | | | | | |
|------|-----------|-----------------|---------|---------|-----------|-----------------|---------|-------|-----------|-----------------|---------|-------|
| | Graduates | Under-graduates | Diploma | Total | Graduates | Under-graduates | Diploma | Total | Graduates | Under-graduates | Diploma | Total |
| 1972 | 123 | 1281 | 341 | 1745 | 24 | 675 | 91 | 790 | 147 | 1956 | 432 | 2535 |
| 1973 | 70 | 1154 | 387 | 1611 | 12 | 673 | 57 | 742 | 82 | 1827 | 444 | 2353 |
| 1974 | 66 | 1176 | 385 | 1627 | 13 | 699 | 42 | 754 | 79 | 1875 | 427 | 2381 |
| 1975 | 71 | 1193 | 435 | 1699 | 27 | 816 | 77 | 920 | 98 | 2009 | 512 | 2619 |
| 1976 | 79 | 1283 | 435 | 1797 | 26 | 906 | 96 | 1028 | 105 | 2189 | 531 | 2825 |
| 1977 | 82 | 1295 | 386 | 1763 | 29 | 907 | 109 | 1045 | 111 | 2202 | 495 | 2808 |
| 1978 | 89 | 1289 | 363 | 1741 | 31 | 923 | 126 | 1080 | 120 | 2212 | 489 | 2821 |
| 1979 | 93 | 1324 | 371 | 1788 | 33 | 939 | 140 | 1112 | 126 | 2263 | 511 | 2900 |
| 1980 | 93 | 1325 | 374 | 1792 | 33 | 938 | 154 | 1125 | 126 | 2263 | 528 | 2917 |
| 1981 | 93 | 1335 | 370 | 1798 | 33 | 946 | 158 | 1137 | 126 | 2281 | 528 | 2935 |

only modest growth in female enrolments. There were 1,797 males enrolled in 1976, and 1,798 are projected to be enrolled in 1981. There were 1,028 females enrolled in 1976, and 1,137 are projected to be enrolled in 1981. Projections of both graduates and enrolments have been given for each programme. The numbers of graduates are statistics of some importance in describing the formal qualifications of the labour force. Here, however, the concern is with the numbers and sources of new (or returning) members of the labour force.

Projections of graduate enrolments for the Master of Education programme and graduate diplomas/certificates were done separately on the basis of statements by officials of Lakehead University (primarily in a submission to the Ontario Council of Universities) concerning its future policy for, and scale of, graduate operations (see Tables 58 to 61). These estimates of future enrolments seem appropriate in light of the expectation that the number of faculty members will either remain constant or gradually decline, in consideration of the intention to raise some student-to-faculty ratios, and on the assumption that enrolments in some very small new programmes will increase. Table 57 is the summation of these separate faculty and programme projections. Its almost complete congruence with Table 62, produced independently, perhaps justifies the claim for its credibility.

3. Geographical origins of first-year students at Lakehead University

In the section on Confederation College it was possible to buttress and modify the projections of enrolments based on the demographic/educational variable of grade 12 graduates with information about the geographical sources of students. For that purpose information on the geographical backgrounds of Lakehead University students was also collected. Though the nature of the data involved does not permit its use in modifying the projections of university enrolments, the information itself is of some interest. Projections of the geographical-source components of future enrolments are given, but they are based on the total enrolments already projected and thus could not be used to modify those projections.

Table 66 (page 85) shows data on the geographical origins of first-year students at Lakehead University. The data source is the permanent home addresses indicated by students on university forms. Northwestern Ontario seems to be the source of most students of both sexes, but females from the Region consistently form a larger portion of female enrolment than males from the Region do of male enrolment. The second most important source is "Other Ontario," which consists of all Ontario excluding Northwestern Ontario, Northeastern Ontario, and Metropolitan Toronto. Northeastern Ontario consistently furnishes a sizeable minority of Lakehead enrolments, but students from Metro Toronto seem to have little motivation to go to Lakehead University.

Perhaps the most interesting observation here pertains to the distribution of enrolments between the sexes. The female proportion of first-year enrolments increased from about 36 percent in 1972 to about 44 percent in 1976. But females make up very nearly fifty percent of first-year enrolments from the Region. There were 239 females and 257 males from the Region enrolled as first-year students in 1976. Females from the Thunder Bay District have been more numerous than males in first-year enrolments in two out of the five years ending in 1976.

Females from the Region made up 59.3 percent of total female first-year enrolments in 1976, while males from the Region made up 50.4 percent of total male first-year enrolments. Males appear to be disproportionately represented among students from outside the Region.

Table 67 (page 86) shows the geographical sources of graduate students at

Table 64

Destinations of Grade 13 Students in Northwestern Ontario

| Year | To Ontario Universities | | | | | | | | | | To Lakehead University | | | |
|----------------------|-------------------------|--------------------|---|--------------------------------|--|--|---|--|---|---|--|-------------|---|---|
| | Grade 13 Enrolments | Grade 13 Graduates | Grade 13 Graduates as a Percentage of Enrolment | Ontario Scholars (80% or more) | Ontario Scholars as a Percentage of Grade 13 Enrolment | Ontario Scholars as a Percentage of Grade 13 Enrolment | Number of Applications for Admission the Following Fall | Applications as a Percentage of Grade 13 Graduates | Number Registered in Ontario Universities | Registrants as a Percentage of Grade 13 Enrolment | Registrants as a Percentage of Those Who Applied | Registrants | Registrants as a Percentage of Grade 13 Enrolment | Registrants as a Percentage of Grade 13 Graduates |
| Kenora District | | | | | | | | | | | | | | |
| 1973 | 284 | 186 | 65.5 | 27 | 9.5 | 14.5 | 143 | 76.9 | 56 | 19.7 | 30.1 | 39.2 | 12 | 4.2 |
| 1974 | 251 | 164 | 65.3 | 32 | 12.8 | 19.5 | 114 | 69.51 | 56 | 22.3 | 34.2 | 49.1 | 10 | 4.0 |
| 1975 | 280 | 138 | 49.3 | 32 | 11.4 | 23.2 | 140 | 101.5 | 56 | 20.0 | 40.6 | 40.0 | 15 | 5.4 |
| Rainy River District | | | | | | | | | | | | | | |
| 1973 | 129 | 80 | 62.0 | 23 | 17.8 | 28.8 | 75 | 93.8 | 36 | 27.9 | 45.0 | 48.0 | 7 | 5.4 |
| 1974 | 150 | 59 | 39.3 | 11 | 7.3 | 18.6 | 47 | 79.7 | 29 | 19.3 | 49.2 | 61.7 | 15 | 10.0 |
| 1975 | 115 | 64 | 55.7 | 16 | 13.9 | 25.0 | 42 | 65.6 | 30 | 26.1 | 46.9 | 71.4 | 11 | 9.6 |
| Thunder Bay District | | | | | | | | | | | | | | |
| 1973 | 818 | 542 | 66.3 | 98 | 12.0 | 18.1 | 478 | 88.2 | 316 | 38.6 | 58.3 | 66.1 | 161 | 19.7 |
| 1974 | 810 | 500 | 61.7 | 113 | 14.0 | 22.6 | 470 | 94.0 | 297 | 36.7 | 59.4 | 63.2 | 133 | 16.4 |
| 1975 | 794 | 525 | 66.1 | 113 | 14.2 | 21.5 | 564 | 107.4 | 390 | 49.1 | 74.3 | 69.2 | 227 | 28.6 |
| Northwestern Ontario | | | | | | | | | | | | | | |
| 1973 | 1231 | 808 | 65.6 | 148 | 12.0 | 18.3 | 696 | 86.1 | 408 | 33.1 | 50.5 | 58.6 | 180 | 14.6 |
| 1974 | 1211 | 723 | 59.7 | 156 | 12.9 | 21.6 | 631 | 87.3 | 382 | 31.5 | 52.8 | 60.5 | 158 | 13.0 |
| 1975 | 1189 | 766 | 64.4 | 161 | 13.5 | 21.0 | 746 | 97.4 | 476 | 40.0 | 62.1 | 63.8 | 253 | 21.3 |
| | | | | | | | | | | | | | | 33.0 |

Source: Data on secondary schools, Ontario Ministry of Education; data on university destinations, Central File of Ontario Universities Application Centre, obtained through C.O.U.

Table 65

Lakehead University:

Educational Backgrounds of First-Year Undergraduates

| Location | Same Institution | Other University | Post-Secondary Non-Universities | Secondary School | No Educational Institution | Sub-Total Not Same | Not Reported | Total |
|-----------------|---------------------|---------------------|------------------------------------|---------------------|-------------------------------|-----------------------|-----------------|-----------------|
| 1972 | | | | | | | | |
| Kenora | 7 | 3 | | 28 | 1 | 32 | 6 | 45 |
| Rainy River | 1 | | 2 | 3 | 1 | 6 | 3 | 10 |
| Thunder Bay | 72 | 3 | 3 | 174 | 18 | 198 | 11 | 281 |
| Outside Ontario | 2 | 2 | 1 | 4 | 4 | 11 | 4 | 17 |
| Not Known | 61 | 9 | 9 | 57 | 39 | 114 | 46 | 221 |
| Other Countries | 17 | 6 | 12 | 108 | 23 | 149 | 23 | 189 |
| Total | 160 (21.0%) | 23 (3.0%) | 27 (3.5%) | 374 (49.0%) | 86 (11.3%) | 510 (66.8%) | 93 (12.2%) | 763 (100.0%) |
| 1973 | | | | | | | | |
| Kenora | 7 | 2 | | 14 | 2 | 18 | 4 | 29 |
| Rainy River | 5 | | 1 | 5 | 1 | 7 | 1 | 13 |
| Thunder Bay | 81 | 6 | 3 | 195 | 17 | 221 | 33 | 335 |
| Outside Ontario | 4 | 1 | 1 | 10 | 3 | 15 | 4 | 23 |
| Not Known | 38 | 6 | 2 | 26 | 10 | 44 | 71 | 153 |
| Other Countries | 22 | 4 | 10 | 125 | 15 | 154 | 28 | 204 |
| Total | 157 (20.7%) | 19 (2.5%) | 17 (2.2%) | 375 (49.5%) | 48 (6.3%) | 459 (60.6%) | 141 (18.6%) | 757 (100.0%) |
| 1974 | | | | | | | | |
| Kenora | 1 | | | 3 | | 3 | | 4 |
| Rainy River | | | | 4 | | 5 | | 5 |
| Thunder Bay | 69 | 4 | 8 | 165 | 24 | 201 | 61 | 331 |
| Outside Ontario | 4 | 2 | 4 | 12 | 4 | 22 | 6 | 32 |
| Not Known | 30 | 3 | 3 | 38 | 2 | 46 | 44 | 120 |
| Other Countries | 41 | 9 | 5 | 116 | 24 | 155 | 51 | 246 |
| Total | 145 (19.6%) | 18 (2.4%) | 20 (2.7%) | 338 (45.8%) | 55 (7.5%) | 431 (58.4%) | 162 (22.0%) | 738 (100.0%) |

Table 66

Lakehead University:

Geographical Backgrounds of Full-Time First-Year Students

| Year | Kenora | Rainy River | Thunder Bay | Total Grades 11+12+13 | Northeastern Ontario | Metro Toronto | Outside Ontario | Other Not Known | Other Ontario* | All Other Excluding Northwestern Ontario** | Total Ontario*** | Total |
|---------|-----------|-------------|-------------|-----------------------|----------------------|---------------|-----------------|-----------------|----------------|--|------------------|--------------|
| Males | | | | | | | | | | | | |
| 1972 | 29 6.0 | 6 1.2 | 161 33.1 | 196 40.3 | 23 4.7 | 2 0.4 | 16 3.3 | 149 30.7 | 100 20.6 | 290 59.7 | 476 97.9 | 486 100.0 |
| 1973 | 18 4.1 | 6 1.4 | 157 36.1 | 181 41.6 | 35 8.1 | 15 3.5 | 18 4.1 | 101 23.2 | 85 19.7 | 254 58.4 | 417 95.9 | 435 100.0 |
| 1974 | 3 0.7 | 5 1.1 | 171 39.0 | 179 40.8 | 32 7.3 | 0 0.0 | 17 3.9 | 77 17.5 | 134 30.5 | 260 59.2 | 422 96.1 | 439 100.0 |
| 1975 | 25 5.7 | 11 2.5 | 209 47.3 | 245 55.4 | 27 5.9 | 25 5.7 | 25 5.7 | 26 5.9 | 120 27.1 | 197 44.6 | 417 94.3 | 442 100.0 |
| 1976 | 25 4.9 | 12 2.6 | 220 43.1 | 257 50.4 | 36 7.1 | 23 4.5 | 26 5.1 | 55 10.8 | 113 22.2 | 253 49.6 | 484 94.9 | 510 100.0 |
| 1977 | 24 5.0 | 12 2.5 | 210 43.0 | 245 50.5 | 35 7.0 | 22 4.0 | 25 5.0 | 53 12.5 | 108 21.0 | 242 49.5 | 462 95.0 | 487 100.0 |
| 1978 | 24 | 12 | 209 | 246 | 34 | 19 | 24 | 61 | 102 | 241 | 463 | 487 |
| 1979 | 25 | 13 | 217 | 256 | 35 | 20 | 25 | 63 | 106 | 250 | 481 | 506 |
| 1980 | 25 | 12 | 214 | 251 | 35 | 20 | 25 | 62 | 104 | 246 | 472 | 497 |
| 1981 | 25 | 13 | 217 | 255 | 35 | 20 | 25 | 63 | 106 | 249 | 479 | 504 |
| Females | | | | | | | | | | | | |
| 1972 | 16 5.8 | 4 1.4 | 120 43.3 | 140 50.5 | 23 8.3 | 0 0.0 | 1 0.4 | 72 26.0 | 41 14.8 | 137 49.5 | 276 99.6 | 277 100.0 |
| 1973 | 11 3.4 | 7 2.2 | 178 55.3 | 196 60.9 | 29 9.0 | 5 1.6 | 5 1.6 | 52 16.2 | 35 10.9 | 126 39.1 | 317 98.5 | 322 100.0 |
| 1974 | 1 0.3 | 0 0.0 | 160 53.7 | 161 54.0 | 20 6.7 | 0 0.0 | 5 1.7 | 43 14.4 | 59 19.8 | 137 46.0 | 293 98.3 | 298 100.0 |
| 1975 | 13 3.5 | 15 4.0 | 231 61.8 | 259 69.3 | 18 4.8 | 16 4.3 | 10 2.7 | 12 3.2 | 59 15.8 | 115 30.8 | 364 97.3 | 374 100.0 |
| 1976 | 10 2.5 | 12 3.0 | 217 53.9 | 239 59.3 | 40 9.9 | 17 4.2 | 6 1.5 | 23 5.7 | 78 19.4 | 164 40.7 | 397 98.5 | 403 100.0 |
| 1977 | 12 3.0 | 12 3.0 | 208 54.0 | 232 60.0 | 33 8.5 | 15 4.0 | 6 1.5 | 27 7.0 | 73 19.0 | 154 40.0 | 380 98.5 | 386 100.0 |
| 1978 | 12 | 12 | 208 | 232 | 33 | 15 | 6 | 27 | 73 | 154 | 380 | 386 |
| 1979 | 12 | 12 | 216 | 240 | 34 | 16 | 6 | 28 | 76 | 160 | 394 | 400 |
| 1980 | 12 | 12 | 213 | 236 | 33 | 16 | 6 | 28 | 75 | 158 | 388 | 394 |
| 1981 | 12 | 12 | 211 | 234 | 33 | 16 | 6 | 27 | 74 | 156 | 384 | 390 |
| Total | | | | | | | | | | | | |
| 1972 | 45 5.9 | 10 1.3 | 281 36.8 | 336 44.0 | 46 6.0 | 2 0.3 | 17 2.2 | 221 29.0 | 141 18.5 | 410 53.7 | 746 97.8 | 763 100.0 |
| 1973 | 29 3.8 | 13 1.7 | 335 44.3 | 377 49.8 | 64 8.5 | 20 2.6 | 23 3.0 | 153 20.2 | 120 15.9 | 380 50.2 | 734 97.0 | 757 100.0 |
| 1974 | 4 0.5 | 5 0.7 | 331 44.9 | 340 46.1 | 52 7.1 | 0 0.0 | 32 4.3 | 120 16.2 | 193 26.2 | 365 49.5 | 705 95.7 | 737 100.0 |
| 1975 | 38 4.7 | 26 3.7 | 440 54.3 | 504 62.2 | 45 5.6 | 41 5.1 | 35 4.3 | 38 4.7 | 179 22.1 | 306 37.8 | 775 95.7 | 810 100.0 |
| 1976 | 35 3.8 | 24 2.6 | 437 47.9 | 496 54.3 | 76 8.3 | 40 4.4 | 32 3.5 | 78 8.5 | 191 20.9 | 417 45.7 | 881 96.5 | 913 100.0 |
| 1977 | 35 4.0 | 26 3.0 | 410 47.0 | 471 54.0 | 65 7.5 | 35 4.0 | 31 3.5 | 87 10.0 | 183 21.0 | 402 46.0 | 842 96.5 | 873 100.0 |
| 1978 | 35 | 26 | 410 | 471 | 65 | 35 | 31 | 87 | 183 | 402 | 842 | 873 |
| 1979 | 36 | 27 | 426 | 489 | 68 | 36 | 32 | 91 | 190 | 417 | 874 | 906 |
| 1980 | 36 | 27 | 419 | 481 | 67 | 36 | 31 | 89 | 187 | 410 | 860 | 891 |
| 1981 | 36 | 27 | 424 | 488 | 68 | 36 | 32 | 90 | 190 | 415 | 871 | 903 |

*Excludes Northwestern Ontario, Northeastern Ontario, and Metropolitan Toronto.

**Total minus Northwestern Ontario, assuming that "Other Not Known" does not exclude students from Northwestern Ontario.

***Assuming that all students in the "Other Not Known" category belong to Ontario.

Table 67
Lakehead University:
Geographical Backgrounds of Graduate Students*

| Year | Kenora | Rainy River | Thunder Bay | Metro Toronto | Outside Ontario | Other Ontario | Not Known | Total |
|---------|--------|-------------|-------------|---------------|-----------------|---------------|-----------|-------|
| Males | | | | | | | | |
| 1972 | 1 | | 13 | 0 | 2 | 2 | 109 | 127 |
| | 0.8 | | 10.2 | 0.0 | 1.6 | 1.6 | 85.8 | 100.0 |
| 1973 | 0 | 0 | 15 | 0 | 0 | 9 | 51 | 75 |
| | 0.0 | 0.0 | 20.0 | 0.0 | 0.0 | 12.0 | 68.0 | 100.0 |
| 1974 | 0 | 0 | 17 | 0 | 2 | 4 | 47 | 70 |
| | 0.0 | 0.0 | 24.3 | 0.0 | 2.9 | 5.7 | 67.1 | 100.0 |
| 1975 | 0 | 1 | 29 | 2 | 6 | 6 | 27 | 71 |
| | 0.0 | 1.4 | 40.8 | 2.8 | 8.5 | 8.5 | 38.0 | 100.0 |
| 1976 | 3 | 1 | 32 | 2 | 8 | 7 | 26 | 79 |
| | 3.8 | 1.3 | 40.5 | 2.5 | 10.1 | 8.9 | 32.9 | 100.0 |
| Females | | | | | | | | |
| 1972 | 0 | | 10 | 0 | 0 | 1 | 17 | 28 |
| | 0.0 | | 35.7 | 0.0 | 0.0 | 3.6 | 60.7 | 100.0 |
| 1973 | 0 | 0 | 2 | 0 | 1 | 1 | 8 | 12 |
| | 0.0 | 0.0 | 16.7 | 0.0 | 8.3 | 8.3 | 66.7 | 100.0 |
| 1974 | 0 | 0 | 3 | 0 | 0 | 2 | 10 | 15 |
| | 0.0 | 0.0 | 20.3 | 0.0 | 0.0 | 13.3 | 66.7 | 100.0 |
| 1975 | 0 | 0 | 14 | 0 | 4 | 3 | 6 | 27 |
| | 0.0 | 0.0 | 51.9 | 0.0 | 14.8 | 11.1 | 22.2 | 100.0 |
| 1976 | 0 | 0 | 13 | 1 | 3 | 2 | 7 | 26 |
| | 0.0 | 0.0 | 50.0 | 3.8 | 11.5 | 7.7 | 26.9 | 100.0 |
| Total | | | | | | | | |
| 1972 | 1 | | 23 | 0 | 2 | 3 | 126 | 155 |
| | 0.6 | | 14.8 | 0.0 | 1.3 | 1.9 | 81.3 | 100.0 |
| 1973 | 0 | 0 | 17 | 0 | 1 | 10 | 59 | 87 |
| | 0.0 | 0.0 | 19.5 | 0.0 | 1.1 | 11.5 | 67.8 | 100.0 |
| 1974 | 0 | 0 | 20 | 0 | 2 | 6 | 57 | 85 |
| | 0.0 | 0.0 | 23.5 | 0.0 | 2.4 | 7.1 | 67.1 | 100.0 |
| 1975 | 0 | 1 | 43 | 2 | 10 | 9 | 33 | 98 |
| | 0.0 | 1.0 | 43.9 | 2.0 | 10.2 | 9.2 | 33.7 | 100.0 |
| 1976 | 3 | 1 | 45 | 3 | 11 | 9 | 33 | 105 |
| | 2.8 | 1.0 | 42.9 | 2.9 | 10.5 | 8.6 | 31.4 | 100.0 |

*Full-time new entrants only

the university. It is probable that these data are improving, but in light of the large numbers of "not knowns" it is inappropriate to do more than observe that males predominate in graduate school, and that graduate students from the Region may well make up less than half of graduate enrolment.

Foreign students are an important minority at Lakehead. Table 68 (page 88) indicates that foreign students are better represented at Lakehead than they are in Ontario universities as a whole. Table 69 (page 89) shows data on the permanent home addresses given by first-year and new students in 1976 who were outside Canada one year earlier. Table 70 (page 90) shows that the Third World countries are well represented among foreign students at Lakehead University, mostly by non-sponsored foreign students.

Table 64 indicates the university's importance in the three Districts of the Region. The portion of grade 13 graduates from Northwestern Ontario as a whole who registered at Lakehead University the following fall was 22.2 percent in 1973, 21.9 percent in 1974, and 33.0 percent in 1975. In 1976 enrolments at the university constituted about 53 percent of all grade 13 graduates enrolled at Ontario universities.

The percentage of the grade 13 graduates from the Thunder Bay District registered at Lakehead University was 29.7 percent in 1973, 26.6 percent in 1974, and 43.2 percent in 1975. More than 58 percent of grade 13 graduates from this District who enrolled in Ontario universities enrolled at Lakehead University in 1976.

The percentage of the grade 13 graduates from the Kenora District registered at Lakehead University was 6.5 percent in 1973, 6.1 percent in 1974, and 10.9 percent in 1975. About 27 percent of grade 13 graduates from this District who enrolled in Ontario universities enrolled at Lakehead in 1976.

The percentage of the grade 13 graduates from the Rainy River District enrolled at Lakehead University was 8.8 percent in 1973, 25.4 percent in 1975, and 17.2 percent in 1975. In 1976 30 percent of the grade 13 graduates from the District enrolled in Ontario universities enrolled at Lakehead University.

Not surprisingly, grade 13 graduates from Thunder Bay have a higher propensity to go to the regional university than graduates from other Districts in the Region do.

Table 68

Lakehead University:

The Enrolment of Foreign Students in Relation to Total Full-Time and Part-Time Enrolment

| Year | Foreign Students | All Students | Percentage Foreign Students** | Percentage Change From Previous Year | |
|-------|------------------|--------------|-------------------------------|--------------------------------------|----------------|
| | | | | Foreign Students** | All Students** |
| 1973 | 122 | 3,342 | 3.7 (2.8) | | |
| 1974 | 184 | 3,343 | 5.5 (3.3) | 50.8 (23.2) | 0.0 (4.3) |
| 1975 | 264 | 3,522 | 7.5 (4.3) | 43.5 (39.6) | 5.4 (6.4) |
| 1976* | 346 | 4,352 | 7.9 (5.1) | 31.1 (19.2) | 23.6 (0.4) |

Source: Mas von Zur-Muehler: The Foreign Student Issues in 1976-77, Canadian Bureau for International Education, March 23, 1977.

*The 1976-77 enrolment data are preliminary and subject to change.

**Figures in brackets are Ontario averages.

Table 69

Lakehead University:

Full-Time Undergraduate and Graduate Enrolment from Outside Canada*

1976-77 Academic Year

| Northwestern Ontario | | | | | | | | | | Total | Other Ontario | Total |
|--|----------------|----------------|-------------------------|----|------------------|--------------------|--------------|----|----|-------|------------------|-------|
| Kenora | Rainy River | Thunder Bay | Northeastern Ontario | | Metro Toronto | Outside Ontario | Not Known | | | | | |
| Undergraduates (First-Year New Entrants) | | | | | | | | | | | | |
| Males | 2 | 0 | 7 | 9 | 4 | 5 | 2 | 2 | 20 | 42 | | |
| Females | 3 | 2 | 8 | 13 | 3 | 2 | 1 | 3 | 11 | 33 | | |
| Total | 5 | 2 | 15 | 22 | 7 | 7 | 3 | 5 | 31 | 75 | | |
| Graduates (New Enrolments) | | | | | | | | | | | | |
| Males | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 9 | 4 | 21 | | |
| Females | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | | |
| Total | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 10 | 4 | 23 | | |

*Students who were outside Canada one year earlier.

Table 70

Lakehead University:

Foreign Students by Geographical Origin, 1975 and 1976

| Year | Europe* | Hong Kong | United States | Other Countries | Total |
|-------------------------|---------------|----------------|---------------|-----------------|-----------------|
| 1975 | 28 (10.5%) | 98 (36.8%) | 6 (2.3%) | 134 (50.4%) | 266 (100.0%) |
| 1976 | 25 (7.6%) | 119 (36.1%) | 6 (1.8%) | 180 (54.5%) | 330 (100.0%) |
| Increase or Decrease | -3% | +21% | 0% | +46% | +64% |

Source: Max von Zur-Muehler, The Foreign Student Issues in 1976-77.

*Includes Japan, Israel, South Africa, Australia, and New Zealand.

Lakehead University:

Sponsored and Private Foreign University Students Admitted by Calendar Year, 1975 and 1976

| Year | Sponsored No. | % | Ontario Average % | No. | Private % | Ontario Average % | Total No. | % Change from 1975 % | Ontario Average % |
|------|------------------|-----|-------------------------|-----|--------------|-------------------------|--------------|----------------------------|-------------------------|
| 1975 | 6 | 2.4 | 7.0 | 245 | 97.6 | 93.0 | 251 | | |
| 1976 | 12 | 3.5 | 5.9 | 334 | 96.5 | 94.1 | 346 | 37.8 | 19.7 |

Source: Max von Zur-Muehler, The Foreign Student Issues in 1976-77.

CHAPTER V

CONCLUSIONS

The projections made in this study show that the contribution of the schools in Northwestern Ontario to the potential labour force there will not increase over the years to 1981. Before that year the numbers of potential workers leaving the schools will be influenced by the declining birth rates of the early 1960s. However, other demographic factors also seem to have influenced the number of school-leavers in the Region because male secondary-school enrolments reached a peak in 1970. The fact that female enrolments probably reached a peak in 1976 seems to reflect an increase in female participation rather than a new demographic development. In 1981 male and female enrolments will both be lower than they are now, and male and female dropouts, enrolments, and graduates will be more nearly equal in number than they now are and have been in the past.

The number of new labour force potentials from the secondary schools (graduates and leavers) has been almost constant since 1973, and although their numbers will be slightly higher for several years, the number projected for 1981 is between the number for 1975 and the estimated number for 1976. The constancy of this source in the face of decreasing cohorts is apparently due to increased participation rates. While the number of new labour force potentials coming from secondary schools will thus remain constant, the total number of new labour force potentials (those from secondary schools plus those who do not go to secondary school) will decrease.

A larger portion of new labour force potentials, especially those who are female, will have some secondary-school education or a secondary-school diploma. The new cohorts are raising the educational qualifications of the indigenous labour force, and it is clear that females will be more important in the labour force and educational activities of the Region than they have been until now. This new significance of females among the "educationally qualified" is manifest throughout the projections made in this study.

At Confederation College, for example, female enrolments have been higher than male enrolments since 1973, and they are expected to remain higher through 1981. These projections forecast an almost static level of enrolment at the college through 1981, which will accommodate a modest increase in the participation rate among new cohorts and an approximately constant participation rate among grade 12 graduates.

The predominance of females at the college suggests that women are becoming more active in education, both in absolute numbers and in relation to males. It also suggests that females may be more dependent than males on local post-secondary establishments. Fewer women than men are expected to seek higher education in distant communities.

Enrolments at Lakehead University are projected to be nearly constant through 1981. Though the proportion of females has been increasing since 1972, that proportion is projected to stay at about 70 percent of the enrolment of males. But females were almost 50 percent of total first-year enrolment from within Northwestern Ontario, and they have actually been more numerous than males in first-year enrolments from the Thunder Bay District in two of the five years ending in 1976.

Sixty-two percent of the first-year students at Lakehead University came

from within the Region in 1975; the figure for 1976 was 54 percent. The coefficient for 1976 is assumed to apply through 1981. The proportions of females for these years were 69 percent and 59 percent, respectively; the proportions for males were 55 percent and 50 percent, respectively. Perhaps of more significance is the fact that 62 percent of the females who enrolled in the first year came from the District of Thunder Bay in 1975 and 54 percent in 1976, while 47 percent of the males who enrolled in the first year came from that District in 1975 and 43 percent in 1976.

It is undeniable that both the college and the university can offer better opportunities to people in the City of Thunder Bay than to other people in the Region. Whatever the educational advantages of living in Thunder Bay over living elsewhere in the Region, it seems that these advantages are of more importance to females than to males.

A part of the problem of effectively serving the entire Region is the fact that many people outside Thunder Bay can as easily go to school outside the Region as in Thunder Bay. This means that the college must compete with colleges outside Northwestern Ontario for students from the Region. In the case of the university, however, this means that attracting and accepting students from outside is an effective strategy for maintaining desired levels of enrolment. Universities are expected to specialise to some extent, of course, and to the extent they do students are compelled to choose a university according to their specialised academic interests at some expense to their geographical preferences. The probable effects of specialisation at Lakehead are most apparent in graduate enrolments. A large proportion--possibly more than half of graduate enrolment--are from outside the Region.

It is appropriate to emphasise that in an area where some exposure to secondary school is a nearly universal experience, the only school-related figures that are relevant to estimating the supply of new potential members of the labour force are statistics on secondary-school dropouts and graduates. It is now almost universal for youth in the Region to enter secondary school, and the number of secondary school dropouts and graduates there each year may be taken as a good approximation of the number of indigenous new labour force potentials.

The number of new labour force potentials in Northwestern Ontario has declined since 1973. The number of male potentials will continue to decline very slowly from 2,502 in 1975 to 2,442 in 1980; the number of female potentials will increase very modestly from 2,200 in 1975 to 2,381 in 1980.

Some grade 12 graduates will go to grade 13, others to colleges and universities. This post-secondary training will postpone entry into the labour market for those who eventually join the labour force, and it will determine their qualifications for employment. This does not alter the fact that the schools were contributing about 4,700 potential members to the labour force in 1976 and that they will contribute about the same number in 1981.

APPENDICES

APPENDIX A

A NOTE ON DATA SOURCES

1. Secondary schools

All data on elementary and secondary school enrolment through the academic year 1975-76 are from the Annual Reports of the Ontario Ministry of Education. The 1976 data are unpublished statistics from the same source.

Data on graduates from secondary school are also from unpublished statistics of the Ministry of Education. Information on the sex distribution of graduates is from a survey of a sample of school files in Northwestern Ontario.

2. College of Applied Arts and Technology

All data on enrolments in the college are from unpublished statistics made available by the Ontario Ministry of Colleges and Universities. Data on graduates from the various programmes were obtained from Confederation College through the Ontario Ministry of Labour. These data were not sex-specific; the numbers of male and female graduates were therefore assumed to be proportional to the numbers of males and females enrolled in each programme.

3. University

All data on enrolment in graduate, undergraduate, and non-degree programmes are from unpublished statistics supplied by Statistics Canada. A retrieval programme for the particular purposes of this study provided the data from the Statistics Canada data sources on university enrolments.

All data from other sources are specifically noted on the appropriate tables.

APPENDIX B

LAKEHEAD UNIVERSITY: FACULTIES, PROGRAMMES, DURATION OF PROGRAMMES, AND ADMISSION REQUIREMENTS, 1976-77

| Degree, Diploma or Certificate Programme | Duration of Programme | Admission Requirements |
|--|---|--|
| <u>Faculty of Arts</u> | | |
| Bachelor of Arts (B.A.) | 3 years | grade 13 or equivalent |
| Honours Bachelor of Arts (B.A. Honours) | 4 years | grade 13 or equivalent |
| Honours Bachelor of Social Work | 4 years | grade 13 or equivalent |
| <u>Faculty of Science</u> | | |
| Bachelor of Science (B.Sc.) | 3 years | grade 13 or equivalent |
| Honours Bachelor of Science (B.Sc. Honours) | 4 years | grade 13 or equivalent |
| <u>Faculty of Education</u> | | |
| Four-year Degree Programmes for Elementary-School Teachers (equivalent to Bachelor of Education) (B.A.-B.Ed. or B.Sc.-B.Ed.) | Four-year Bachelor of Arts; Bachelor of Science in Education | grade 13 or equivalent |
| Bachelor of Education (B.Ed.) | One full year of professional study after an approved university degree (i.e., after 3-year Bachelor of Arts or Science degree) | an approved university degree (i.e., 3-year Bachelor of Arts or Science degree) |
| Degree Programmes in Secondary-Teacher Education (B.A.-B.Ed. or B.Sc.-B.Ed.) | 2 years | grade 13 or equivalent |
| Native Teacher Education Programme | 2 years | grade 13 or equivalent |

| Degree, Diploma, or Certificate Programme | Duration of Programme | Admission Requirements |
|---|--------------------------|---|
| <u>Faculty of University Schools</u> | | |
| <u>1. School of Business Administration</u> | | |
| Honours Bachelor of Commerce | 4 years | grade 13 or equivalent |
| Bachelor of Administration | 3 years | grade 13 or equivalent |
| Graduate Diploma in Business Administration | 3 years | Ontario grade 12 |
| Diploma in Business Administration | one-year programme | completion of under- graduate degree in non-business area of study |
| <u>2. School of Engineering</u> | | |
| (a) Diploma in Engineering Technology | | |
| (i) Chemical Engineering Technology (Pulp and paper option) | 3 years from grade 12 | grade 12 or 12 |
| (ii) Civil Engineering Technology | 2 years from grade 13 | grade 12 or 12 |
| (iii) Electronics Engineering Technology | 2 years from grade 13 | grade 13 or 12 |
| (iv) Mechanical Engineering Technology | 2 years from grade 13 | grade 13 or 12 |
| (b) Bachelor of Engineering (Post-Diploma) | 2 years | diploma in engineering technology |
| (c) Bachelor of Applied Science (1st year only) | 1 year | grade 13 |
| (d) Honours Bachelor of Science in Forestry | 4 years | grade 13 |
| (e) Diploma in Forest Technology | 2 years | grade 13 |
| (f) Certificate in Environmental Forest Technology | 1 year | grade 13 or equivalent |
| (g) Certificate in Timber Harvesting Technology | 1 year | grade 13 or equivalent |
| <u>School of Nursing</u> | | |
| Basic Degree Programme Bachelor of Science in Nursing | 4 years | grade 13 |

| Degree, Diploma, or Certificate Programme | Duration of Programme | Admission Requirements |
|--|--------------------------|---|
| Post-Diploma Degree Programme | 4 years | grade 13 |
| <u>School of Physical and Health Education</u> | | |
| Honours Bachelor of Physical and Health Education (B.P.H.E.- B.Ed.) | 4 years | grade 13 or equivalent |
| Bachelor of Physical Education in Outdoor Recreation | 3 years | grade 13 or equivalent |
| <u>School of Library Technology</u> | | |
| Diploma in Library Technology | 2 years | post-baccalaureate level |
| Certificate in School Librarianship | 2 years | post-high school |
| <u>Graduate Studies</u> | | |
| Master of Arts | 2 years | 3-year B.A. or B.Sc. with at least B standing |
| Master of Science | 1 year | 4-year honours degree in B.A. or B.Sc. |
| Master of Education | 1 year | 3-year B.A. or B.Sc. or equivalent |

APPENDIX C

THE POPULATION OF NORTHWESTERN ONTARIO BY SELECTED AGE GROUPS, 1971-1981

| Year | Males | | | Females | | | Total | | |
|------|--------|--------|-------|---------|--------|--------|-------|-------|--------|
| | 6-14 | 14-19 | 18-20 | 21-24 | 6-14 | 14-19 | 18-20 | 21-24 | 21-24 |
| 1971 | 22,925 | 14,190 | 6,405 | 7,825 | 21,815 | 13,480 | 5,885 | 7,150 | 44,740 |
| 1972 | 22,587 | 14,484 | 6,648 | 7,873 | 21,411 | 13,874 | 6,311 | 7,104 | 43,998 |
| 1973 | 22,035 | 14,825 | 7,019 | 7,906 | 20,857 | 14,072 | 6,642 | 7,237 | 42,892 |
| 1974 | 21,218 | 14,883 | 7,166 | 8,136 | 20,193 | 14,209 | 6,846 | 7,484 | 41,411 |
| 1975 | 20,595 | 14,796 | 7,235 | 8,458 | 19,452 | 14,242 | 6,903 | 7,914 | 40,047 |
| 1976 | 19,877 | 14,754 | 7,152 | 9,262 | 18,856 | 14,202 | 6,960 | 8,644 | 38,733 |
| 1977 | 19,363 | 14,828 | 7,341 | 9,080 | 18,271 | 14,174 | 6,951 | 8,696 | 37,634 |
| 1978 | 18,449 | 14,568 | 7,324 | 9,261 | 17,491 | 13,916 | 7,025 | 8,914 | 35,940 |
| 1979 | 17,869 | 14,203 | 7,316 | 9,362 | 16,919 | 13,615 | 6,996 | 9,021 | 34,788 |
| 1980 | 17,325 | 13,897 | 7,084 | 9,384 | 16,512 | 13,148 | 6,966 | 8,990 | 33,837 |
| 1981 | 16,925 | 13,377 | 7,173 | 9,405 | 16,205 | 12,647 | 6,859 | 9,082 | 33,130 |
| | | | | | | | | | 26,024 |
| | | | | | | | | | 14,032 |
| | | | | | | | | | 14,292 |
| | | | | | | | | | 28,484 |
| | | | | | | | | | 14,349 |
| | | | | | | | | | 27,818 |
| | | | | | | | | | 14,312 |
| | | | | | | | | | 27,045 |
| | | | | | | | | | 14,050 |
| | | | | | | | | | 18,374 |
| | | | | | | | | | 18,488 |

Source: Ontario, Ministry of Treasury, Economics and Intergovernmental Affairs, Central Statistical Services, Social and Demographic Unit, 1976.

Northwestern Ontario Manpower Adjustment Study

Component Studies

- 1. An Economic History
of Northwestern Ontario**
- 2. Projections of Labour Supply
by Occupation in Northwestern Ontario,
to 1981**
- 3. Projections of Enrolment and Graduations
from Secondary and Post-Secondary
Institutions in Northwestern Ontario, to 1981**
- 4. Labour Market Intentions of Graduating Students
from Post-Secondary Institutions
in Northwestern Ontario**
- 5. Projections of Total Labour Force
in Northwestern Ontario, to 1981**
- 6. Results of a Manpower Survey
of the Mineral and Forest Products Industries
in Northwestern Ontario**
- 7. Projections of Manpower Requirements
by Occupation and Industry for
Northwestern Ontario, to 1981**
- 8. Aspects of Migration
in Northwestern Ontario, 1966-71**
- 9. Why People Move from Northwestern Ontario**
- 10. Labour Turnover and Absenteeism
in Selected Industries:
Northwestern Ontario and Ontario**

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